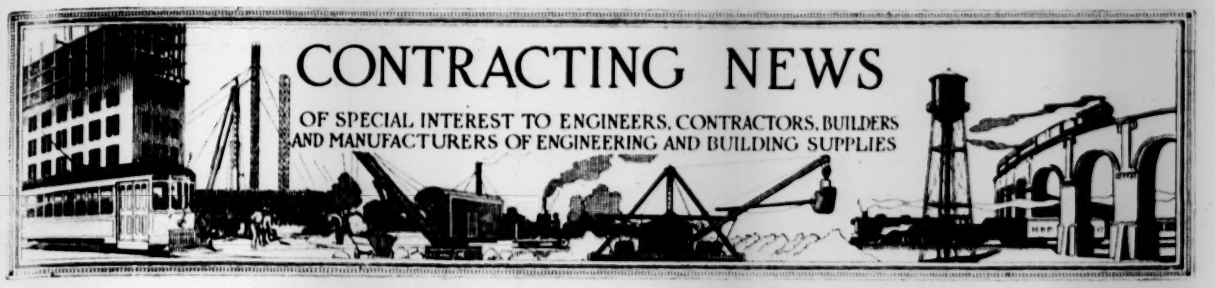
CONTRACTING NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Price advances are indicated by heavy type; declines by *italics*.

PIG IRON

Below are the present quotations with a comparison of a month and a year ago

	Dec. 1, 1917	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	**$35.00**	$33.00	$24.46
No. 2 Northern basic	34.26	....	28.26
NEW YORK			
No. 2X Northern foundry	34.25	34.25	29.00
No. 2 plain Northern foundry	33.75	33.75	28.50
No. 2 Southern foundry†	**38.75 to 39.25‡**	37.25	28.00
BIRMINGHAM			
No. 2 Southern foundry	33.00	33.00	22.00
CHICAGO			
No. 2 Northern foundry	33.00	33.00	27.00
No. 2 Southern foundry	37.00	37.00	....
PITTSBURGH			
Bessemer iron*	**37.25**	36.30	34.45
Basic iron*	33.00	33.00	30.00

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered Tidewater, New York. ‡Rail and water.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Dec. 1, 1917	One Year Ago	Dec. 1, 1917	One Year Ago
Standard bessemer rails	$38.00	$38.00	$38.00	$38.00
Standard openhearth rails	40.00	40.00	40.00	40.00
Light rails, 8 to 10 lb.	*43.50*	50.00	*43.50*	47.00
Light rails, 12 to 14 lb.	*39.00*	49.00	*39.00*	46.00
Light rails, 25 to 45 lb.	*30.00*	47.00	*30.00*	44.00

Note—Reported that rerolled rails are higher than new rails rolled from billets.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				
	Dec. 1, 1917	One Year Ago	Chicago	St. Louis	San Francisco
Standard railroad spikes, ⅝-in. and larger	**$5.00 to 5.50**	$2.65	$5.00	$6.45 base	$7.25
Track bolts, square nuts	**7.00 to 8.50**	3.25	6.25	Premium	8.80
Standard section angle bars	*3.50 to 4.00*	2.00	4.50	Premium	4.65

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

	Material	7 In. x 9 in. by 8 Ft. 6 In.	6 In. x 8 in. by 8 Ft.
New York	Yellow Pine	$1.30	$1.06 to 1.11
St. Louis	White Oak	1.00	.75
Chicago	Plain	.97	.82
Chicago	Creosoted	1.30	1.15
San Francisco	Green	1.13	.80
San Francisco	Creosoted	2.02	*1.43*

PIPE

PIPE—The following discounts are for carload lots f.o.b. Pittsburgh, basing car of Nov. 5, by Government, for steel, iron still being of May 1:

Steel			Iron		
Inches	Black	Galvanized	Inches	Black	Galvanized
		BUTT WELD			
¾ to 3	*51%*	*37½%*	¾ to 1½	33%	17%
		LAP WELD			
2	*44%*	*31½%*	1¼	18%	3%
2½ to 6	*47%*	*34½%*	1½	25%	11%
7 to 12	*44%*	*30½%*	2	26%	12%
13 and 14	*34½%*	....	2½ to 6	28%	15%
15	*32%*	....	7 to 12	25%	12%
		BUTT WELD, EXTRA STRONG PLAIN ENDS			
¾ to 1½	*49%*	*36½%*	¾ to 1½	33%	18%
2 to 3	*50%*	*37½%*			
		LAP WELD, EXTRA STRONG PLAIN ENDS			
2	*42%*	*30½%*	1¼	19%	4%
2½ to 4	*45%*	*33½%*	1½	25%	11%
4½ to 6	*44%*	*32½%*	2	27%	14%
7 to 8	*40%*	*26½%*	2½ to 4	29%	17%
9 to 12	*35%*	*21½%*	4½ to 6	28%	16%
			7 to 8	20%	8%
			9 to 12	15%	3%

From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	38%	*42.8%*	*40.1%*
3½ to 6 in. lap welded	18%	*38.8%*	*36.1%*

	Galvanized		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	22%	*27.8%*	*25.1%*
3½ to 6 in. lap welded	List	*18.8%*	*22.1%*

Malleable fittings, Class B and C, from New York stock sell at 5 and 5% from list prices. Cast iron, standard sizes, 34 and 5%.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York						
	Dec. 1, 1917	1 Month Ago	One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4 in.	$59.50	$59.50	$34.50	$58.35	$57.00	$66.40	$62.00
6 in. and over	56.50	56.50	31.50	55.35	54.00	63.40	59.00

Gas pipe and 16-ft. lengths are $1 per ton extra
Note—Advances due to Government price-fixing.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.

	New York					
Size, In.	Dec. 1 1917	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$35.00	$23.00	$18.40	$15.00	$20.25	$21.00
4	51.00	32.45	20.70	18.00	34.75	36.00
5	65.00	45.00	28.75	23.00	48.75	48.00
6	90.00	56.55	40.25	27.00	67.50	64.00
8	130.00	98.50	74.75	55.00	....	120.00

SEWER PIPE—The following prices are in cents per foot for carload lots:

	New York					
Size, In.	Dec. 1 1917	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$0.093	$0.0725	....	$0.09	$0.075	$0.1032
4	.093	.0725	....	.10	.10	.1032
5	.1395	.12	....	.135	.12	.1548
6	.1395	.12	$0.12	.15	.15	.1548
8	.217	.165	.165	.21	.225	.215
10	.3255	.24	.23	.315	.30	.301
12	.4185	.30	.33	.405	.40	.387
15	.558	.405	.50	.54	....	.559
18	.775	.57	.75	.75	.75	.731
20	.93	.675	.90	.90	.982	.86
22	1.024	.90	1.13	1.20	....	1.118
24	1.395	.975	1.28	1.35	1.375	1.29
27	2.08	1.665	1.30	....	....	1.935
30	2.304	2.075	1.70	....	....	2.365
33	3.06	2.625	2.25	....	....	3.05
36	3.485	2.94	2.50	....	....	3.44

	Boston	St. Paul	Denver	Los Angeles	Seattle
3	$0.099	$0.09	$0.09	$0.0675	$0.0825
5	.1485	.135	.18*	.1125	.....
8	.231	.1875	.25	.2025	.2475
12	.4455	.3375	.40	.36	.48
24	1.485	1.44	1.35	1.25	1.75
36	3.69	3.00	3.00*	.....	.....

*Denver: 6-in. and 30-in.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices in tank cars 8000 gal. minimum f.o.b. places named:

St. Louis, 45-50% asphalt	$0.06½
Chicago, 15-20% asphalt	.06½
Chicago, 100% dust layer	.08½
Dallas, 40-50% asphalt	.07
Dallas, 60-70% asphalt	.08
Dallas, 75-90% asphalt	.09
San Francisco, 75-95% asphalt	1.90*

*Per barrel of 42 bulk gallons.

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	$30.00	....
New York	Mexican	28.00	$20.00
Chicago	Mexican	25.00	21.00
St. Louis	Stanolind	21.00	17.00
San Francisco	California	16.50	13.50
Dallas	Texaco and Mexican	25.00	23.00
Seattle	....	19.00	....
Denver	Trinidad	31.00	....
Denver	California	23.00	....
St. Paul	Trinidad	26.50	....

PAVING STONE—

New York	Manhattan	$2.50	sq.yd.
	Other boroughs	2.25	sq.yd.
New York	5-in. granite	2.55	sq.yd.
Chicago	About 4x8x4 dressed	2.25	sq.yd.
	About 4x8x4 common	1.80	sq.yd.
San Francisco	Basalt block 4x7x8	57.75	per M
St. Paul	Sandstone	1.65	sq.ft.
Boston	5-in. granite	2.55	sq.yd.

FLAGGING—

		Dec. 1, 1917	
New York	Bronx	$0.17	sq.ft.
	Manhattan	.18	sq.ft.
	Queens, 5 ft. square	.19	sq.ft.
	5x20-in. cross-walk	.30	sq.ft.
Chicago	18 in. wide	.75	lin.ft.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$2.00
New York	4	16	2.25
Chicago	4	16	1.85
Chicago	3½	16	1.70
Chicago	City specifications		2.10
St. Louis	3½	16	**1.81**
St. Louis	4	16	**2.04**
Seattle	4	16	*1.53*
St. Paul	Minneapolis specifications		2.00
New Orleans	3½	16	2.30
New Orleans	4	16	2.60
San Francisco	3	16	2.15
San Francisco	3½	16	2.26
San Francisco	4	16	2.57

CURBING—Prices per linear foot are as follows:

New York	5 x 16	$0.45
	5 x 20	.50
Chicago	6 x 18	.60
St. Louis	5x16 square edge	.72
San Francisco	6 x 16	.65
	6 x 20	.80

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel 1½ In. Dec. 1. 1917	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Dec. 1. 1917	Gravel ¾ In. One Yr. Ago	Sand Dec. 1. 1917	Sand One Yr. Ago
New York	$1.40	$1.00	$1.50	$1.10	$0.50	$0.50
Los Angeles	.75*	....	.75*	....	.55*	....
Chicago	1.40	1.00	1.40	1.00	1.40	1.00
St. Louis	1.11	.70	1.11	.70	1.11	.60
New Orleans	1.95	....	1.95	....	1.95	....
Dallas	1.50	1.00	1.50	1.00	1.35	.75
Denver	**1.45**	....	**1.45**	....	**1.00**	....
San Francisco	**1.06**	1.00	1.00	1.00	**1.06**	1.00
Seattle	.80	....	.80	....	.80	....
Boston	1.50	....	1.60	....	.90	....
St. Paul	1.10	....	1.40	....	.50	....

*Price per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Dec. 1. 1917	1½ In. One Year Ago	¾ In. Dec. 1, 1917	¾ In. One Year Ago
New York	$1.15–1.25	$1.00–1.10	$1.25–1.35	$1.10–1.25
Boston	**1.50**	....	**1.50**	....
Chicago	1.40	1.00	1.40	1.00
St. Louis	**1.45**	1.00	**1.45**	1.00
Dallas	*1.39*	....	....	....
San Francisco	**1.06**	1.00	1.00	1.00
St. Paul	1.00	....	1.10	....
Seattle	1.10	....	1.10	....
Denver	**1.45**	....	**1.45**	....
Los Angeles	.95	....	.95	....

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 300-Lb. Barrel Finished	Lump per 300-Lb. Barrel Common
New York	$16.50	....	$2.10	....
Chicago	15.00	12.00	....	....
St. Louis	13.00	....	1.50	....
San Francisco	16.50	....	....	$1.65

ROSENDALE NATURAL CEMENT—Price to dealers for 500 bbl. or over, f.o.b., including bags:

New York $1.15

30c. allowed for bags.

PORTLAND CEMENT—These prices are for barrels in carload lots, including bags, to contractors:

	Dec. 1, 1917	One Month Ago	One Year Ago
New York	$2.22	$2.22	$1.87
Jersey City	2.16	2.16	1.80
Boston	2.37	2.37	2.02
Chicago	2.21	2.21	1.96
Pittsburgh	2.31	2.31	1.96
Cleveland	2.44	2.44	2.09
Detroit	2.40	2.40	2.05
Indianapolis	2.38	2.38	2.09
Toledo	2.40	2.40	2.09
Milwaukee	2.33	2.33	2.08
Minneapolis	2.48	2.48	2.23
Duluth	2.51	2.51	2.21
Peoria	2.33	2.33	2.08
Cedar Rapids	2.48	2.48	2.19
Davenport	2.40	2.40	2.14
St. Louis	2.45	2.45	1.95
Denver	*3.10*	3.20	....
San Francisco	2.30	2.30	2.30
Los Angeles	**2.40**	2.30	....
Dallas	**2.60**	2.40	....
Boston	*2.27*	2.37	....
New Orleans	3.00	....	....
St. Paul	**2.83**	2.58	....
Seattle	**2.75**	2.65	....

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-IN. x 4-IN. MESH

Style Number	Sectional Area Square Inches per Foot Width	Pittsburgh	New York	Chicago	St. Louis	Dallas	San Francisco
032	0.032	**$0.96**	**$0.99**	**$1.01**	**$0.96**	**$1.13**	$1.27
049	0.049	**1.22**	**1.37**	**1.28**	**1.22**	**1.43**	1.63
068	0.068	**1.52**	**1.57**	**1.60**	**1.52**	**1.79**	2.04
093	0.093	**1.96**	**2.03**	**2.06**	**1.96**	**2.41**	2.62
126	0.126	**2.48**	**2.56**	**2.60**	**2.48**	**2.92**	2.96
153	0.153	**2.96**	**3.07**	**3.11**	**2.96**	**3.48**	3.32
180	0.180	**3.39**	**3.50**	**3.56**	**3.39**	**3.99**	....
245	0.245	**4.48**	**4.64**	**4.70**	**4.48**	**5.27**	5.65
287	0.287	**5.18**	**5.36**	**5.44**	**5.18**	**6.10**	6.94
336	0.336	**6.00**	**6.21**	**6.30**	**6.00**	**7.06**	....
395	0.395	**6.96**	**7.17**	**7.30**	**6.96**	**8.19**	....
036	0.036	.74	.76	.78	.74	.87	....
053	0.053	**1.04**	**1.08**	**1.09**	**1.04**	**1.23**	....
072	0.072	**1.35**	**1.39**	**1.41**	**1.35**	**1.59**	....
097	0.097	**1.74**	**1.80**	**1.83**	**1.74**	**2.05**	....
049	0.049	**1.04**	**1.14**	**1.09**	**1.04**	**1.23**	**1.56**
067	0.067	*.35*	**1.39**	**1.42**	**1.35**	**1.59**	....
089	0.089	**1.74**	**1.80**	**1.83**	**1.74**	**2.05**	....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.

Galvanized is about 10% higher.

EXPANDED METAL LATH—Prices per 100 yd. for painted are as follows:

Gage	Weight	Carload New York Dec. 1. 1917	Carload New York One Year Ago	Carload Chicago	Carload St. Louis	Carload San Francisco	Carload Dallas
27	233	$31.00	$18.00	$31.00	$34.00	$29.00	$32.00
26	250	32.05	19.00	32.00	35.00	30.25	....
25	300	33.15	20.00	33.00	....	....	35.00
24	340	34.25	21.00	34.00	37.00	33.00	36.00
22	450	36.45	24.00	36.00	....	....	....

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING—The folowing quotations are per 100 lb., for plain round or square bars:

ROLLED FROM BILLETS

In.	Mill Shipment	New York Dec. 1. 1917	New York One Year Ago	Warehouse St. Louis	Warehouse Chicago	Warehouse San Francisco	Warehouse Dallas
¾ and larger	*$2.90*	*$4.09½*	$5.10	$4.17	*$4.10*	*$6.00*	$4.75
⅝	*2.95*	*4.14½*	5.15	4.22	*4.15*	*6.05*	4.80
½	*3.00*	*4.19½*	5.20	4.27	*4.20*	*6.10*	4.85
⅜	*3.15*	*4.34½*	5.35	4.42	*4.35*	*6.25*	5.00
¼	*3.60*	*4.59½*	5.60	4.67	*4.60*	*6.50*	6.00

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	Dallas		Chicago	Dallas
¾ in. and larger	*$4.10*	$4.75	⅝	*$4.35*	$5.00
⅝	*4.15*	4.80	¼	*4.60*	6.00
½	*4.20*	4.85			

BRICK—To contractors the price per 1000 in cargo or carload lots is as follows:

	Common Dec. 1. 1917	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$8.25	$8.25	$9.50	$33.00	$40.00
Chicago	8.00	8.00	6.00	17.00	25.00
St. Louis, selected	10.00	10.00	10.00	18.00	....
St. Louis, salmon	8.00	8.00	7.00	....	....
Denver	8.00	8.00	....	....	....
San Francisco	10.00	10.00	10.00	....	....
Dallas	**9.50**	8.60	....	22.00	22.50
Boston	13.25	13.25	....	....	25.00
St. Paul	8.70	8.70	....	....	27.00
Seattle	9.00	9.00	....	....	28.75
Los Angeles	**8.00**	7.50	....	....	....
New Orleans	10.00	....	....	....	10.50

HOLLOW TILE—Hollow building tile price per block in cents:

	New York Dec. 2. 1917	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4x12x12	**$0.095**	$0.075	$0.079	$0.054	$0.0825	$0.075
6x12x12	**.133**	.104	.119	.066	.11	.105
8x12x12	**.1615**	.1266	.137	.09	.1275	.14
10x12x12	**.190**	.149	.158	.15	.20	.16
12x12x12	.2375	.1875	.205	.18	.22	.21

Above prices are for carload lots o. more.

	4x12x12	8x12x12	12x12x12
Boston	*$0.08*	*$0.15*	*$0.20*
St. Paul	.055	.138	.153
Denver	.11	.20	.30
Los Angeles	**.0668**	**.12**	**.20**
Seattle	.06	.10	.16

STRUCTURAL MATERIAL—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	New York Dec. 1, 1917	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco	Dallas
Beams, 3 to 15 in.	$3.00	*$4.195*	$3.85	*$4.27*	*$4.20*	$7.75	$6.00
Channels, 3 to 15 in.	3.00	*4.195*	3.25	*4.27*	*4.20*	7.75	6.00
Angles, 3 to 6 in., ¼ in. thick	3.00	*4.195*	3.25	*4.27*	*4.20*	7.75	6.00
Tees, 3 in. and larger	3.00	*4.195*	3.40	*4.27*	*4.25*	7.75	6.00
Plates	3.25	*4.445*	4.00	*4.52*	*4.45*	7.75	9.00

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill. Pittsburgh	New York Dec. 1. 1917	New York One Year Ago	Warehouse Chicago	Warehouse St. Louis	Warehouse San Francisco	Warehouse Dallas
¾ in. and larger	$5.25	$7.00	$5.25	$5.50	$5.55	$7.15	$8.40
CONE HEAD BOILER							
¾ in. and larger	5.35	7.10	5.35	5.60	5.65	7.25	8.50
⅝ and ½	5.50	7.25	5.50	5.75	5.80	7.40	8.65
½ and ⅜	5.85	7.60	5.85	6.10	6.15	7.75	9.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.l.
No. 1 grade	$1.15	$1.40	$1.45	$1.60	$1.75	$1.90
No. 2 grade	1.10	1.25	1.25	1.40	1.50	1.65

Asbestos asphalt-saturated felt (14 lb. per square) costs $6.50 per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $1.85 per roll in carload lots and $2.10 for smaller quantities.

Shingles, red and green slate finish, cost $4.75 per square in carloads, $5 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York or Chicago:

	Carload Lots	Less Than Carload Lots
Tar felt (14 lb. per square of 100 sq.ft.)	$61.00	$62.00
Tar pitch (in 400-lb. bbl.)	15.00	16.50
Asphalt pitch (in barrels)	29.00	30.50
Asphalt felt	60.00	62.00

SHEETS—Quotations are in cents per pound in various cities from warehouse, also the base quotations from mill:

Blue Annealed	Large Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York Dec. 1, 1917	New York One Yr. Ago
No. 10	4.25	5.42	5.45	8.25	5.445	4.25
No. 12	4.30	5.47	5.50	8.30	5.495	4.30
No. 14	4.35	5.52	5.55	8.35	5.545	4.35
Black						
Nos. 18 and 20	4.80	6.32	6.25	8.30	6.245	3.80
Nos. 22 and 24	4.85	6.37	6.30	8.35	6.295	3.85
No. 26	4.90	6.42	6.35	8.40	6.345	3.90
No. 28	5.00	6.52	6.45	8.50	6.445	4.00
Galvanized						
No. 10	5.25	6.97	6.80	....	6.695	....
No. 12	5.35	6.97	6.80	8.60	6.795	4.50
No. 14	5.35	6.97	6.80	8.60	6.795	4.50
Nos. 18 and 20	5.65	7.17	7.10	8.90	7.095	4.90
Nos. 22 and 24	5.80	7.32	7.25	9.05	7.245	5.30
No. 26	5.95	7.47	7.40	9.20	7.395	5.45
No. 28	6.25	7.77	7.70	9.50	7.695	5.75

LINSEED OIL—These prices are per gallon:

	New York Dec. 1, 1917	New York One Year Ago	Cleveland Dec. 1, 1917	Cleveland One Year Ago	Chicago Dec. 1, 1917	Chicago One Year Ago
Raw in barrels	$1.22	$1.01	$1.25	$1.05	$1.22	$0.96
5-gal. cans	1.32	1.11	1.40	1.15	1.32	1.06

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	Red Dec. 1, 1917 Dry	Red Dec. 1, 1917 In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Dec. 1, 1917 Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	12.25	12.50	10.50	11.00	12.00	10.50
25- and 50-lb. kegs	12.50	12.75	10.75	11.25	12.25	10.75
12½-lb. keg	12.75	13.00	11.00	11.50	12.50	11.00
1- to 5-lb. cans	14.25	14.50	12.50	12.50	14.50	12.50

LUMBER—Price per M in carload lots:

Rough Douglas Fir, No. 1 Common—More than carload lots in San Francisco:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$24.00	$25.50	....
3 and 4x6 and 8	24.00	24.50	$25.50
6x6 and 8x8	24.50	25.50	25.50
3 and 4x10	24.00	25.50	26.50
6 and 8x10	25.00	26.00	27.00
3 and 4x12	24.00	25.50	26.50
6 and 8x12	25.50	26.50	26.50
10 and 12x12	25.00	25.00	27.00
3 and 4x14	25.00	27.00	28.00
6 and 8x14	26.50	27.50	27.50
7 and 9x14	27.50	28.50	28.50
10 and 12x14	26.00	26.00	28.00

Square Edge and Sound Green

	Southern Pine New York 20 Ft. and Under	Southern Pine New York 22-24 Ft.	Southern Pine Chicago 20 Ft. and Under	Southern Pine Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	Yellow Pine St. Louis 22-24 Ft.
3 x 4	$33.75	$34.00	$31.75	$32.75	$28.75	$29.75
3 x 10	36.75	37.00	34.75	35.75	31.75	32.75
3 x 12	41.75	42.00	39.75	40.75	36.75	37.75
3 x 14	43.75	45.00	41.75	43.75	38.75	40.75
3 x 16	45.75	47.00	43.75	45.75	40.75	42.75
3 x 18	48.75	51.00	46.75	49.75	43.75	46.75
4 x 20	51.75	54.00	49.75	52.75	46.75	49.75

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Prices from Lumberman's Bureau.

	8 x 8-In. x 20 Ft. and Under Y.P.	Fir	Hemlock	Spruce	12 x 12-In., 20 Ft. and Under Y.P.	Fir
Boston	....	....	....	$40.00	....	....
Seattle	$23.00	$23.00	$23.00	23.00	$23.00	$23.00
Los Angeles	....	30.00	30.00	....	....	....
New Orleans	26.00	....	....	....	38.00	....
St. Paul	....	38.00	38.00	38.00	....	51.00
Denver	....	32.00	....	28.50	....	34.00
San Francisco	....	24.00	24.00	....	....	24.00

	1-In. Rough, 10 In. and Under Y.P.	Fir	Hemlock	2-In. T. and G., 10 In. x 16 Ft. Y.P.	Fir
Seattle	$23.00	$23.00	$23.00	$23.00	$23.00
New Orleans	26.00	....	....	24.00	....
San Francisco	....	24.00	24.00	....	24.00
St. Paul	....	53.00	34.00	61.00	37.50
Denver	....	30.00	30.00	....	30.00

Yellow Pine—Dallas. Price per M:

2x4 to 2x12—12, 14 and 16	$32.50
2x4 to 2x12—10, 18 and 20	35.00
2x4 to 2x12—22 and 24	37.50
4x4, 4x6, 6x6, 8x8 and 3x8	40.00
8x10, 10x10 and 3x10	42.50
12x12 and 3x12	42.50

NAILS—The following quotations are per keg from warehouse:

	Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$3.50	$4.30	$4.25	$4.70	$4.50
Cut	....	5.25	4.40	6.15	....

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	21.5	New Orleans	30.7
Buffalo	11.6	New York	19.5
Chicago	18.9	Pacific Coast (all rail)	75.0
Cincinnati	15.8	Philadelphia	18.5
Cleveland	10.5	St. Louis	23.6
Denver	68.6	St. Paul	32.9
Kansas City	43.6		

Note—Add 3% transportation tax.

WATER TREATMENT CHEMICALS—Prices per pound are as follows:

	New York	Chicago
Sulphate of alumina (iron free), in 400-lb. barrel	$0.045	....
Hypochlorite of lime (bleaching powder), in 700-lb. drums	.03	....
Soda ash, in 400-lb. bbl.	.05	.03¾ to 4
Liquid chlorine, in 100-lb. cylinders	.175	.16 to .18

Lime is quoted separately.

CONTRACTORS' MISCELLANEOUS SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Dec. 1, 1917	One Month Ago	One Year Ago
$4.00 to $5.00	$4.00 to $5.00	$3.00

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	10—2½%	10—2½%	10—2½%	+40%
Bright	20—2½%	20—2½%	20—2½%	15%

Note—Change in price imminent.

MANILA ROPE—For rope smaller than ⅝-in. the price is ½ to ¾c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ⅜-in., 8 ft.; ½-in., 6; ⅝-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ⅜-in. and larger, in 1200-ft. coils:

Boston	$0.35	New Orleans	$0.33
New York	.35	Los Angeles	.34
Chicago	.37½	Seattle	.33½
St. Paul	.34	Denver	.35½

EXPLOSIVES—Price per pound in small lots at cities named:

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder
New York	....	$0.27½	$0.34½	....	$2.50*
Boston	....	....	.36¼	$0.43¾	....
New Orleans	....	.27½	.34½	....	....
Los Angeles	$0.24	.30	.39	....	....
Seattle	.18½	.24¾	.31¾	.41¾	....
Chicago	.19¾	.25¾	.33	.43	2.45*
St. Paul	.20	.26¼	.33¼	....	2.55*
St. Louis	.16½	.20½	.27½	.39½	2.15*
Denver	.19	.25¼	.32¼	.42¼	....
Dallas	.25	.29	.39	.49	....

*Keg.

POLES—Price of Western red cedar poles is as follows:

	New York Dec. 1, 1917	New York One Year Ago	Chicago	St. Louis	Denver
6 in. by 30 ft.	$5.59	$4.77	$4.94	$4.94	$4.32
7 in. by 30 ft.	7.40	5.90	6.60	6.60	5.80
7 in. by 35 ft.	10.70	....	9.60	9.60	8.55
8 in. by 35 ft.	12.30	9.75	10.90	10.90	9.65
7 in. by 40 ft.	12.35	9.95	11.00	11.00	9.75
*8 in. by 45 ft.	18.20	14.45	16.20	16.20	14.30
*8 in. by 50 ft.	21.85	16.85	19.45	19.45	17.15

*10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft.	$5.00
12-in. butts, 6-in. tops, length 30-40 ft.	7.50
12-in. butts, 6-in. tops, length 41-50 ft.	8.50
14-in. butts, 6-in. tops, length 51-60 ft.	16.00
14-in. butts, 6-in. tops, length 61-71 ft.	17.50

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York Dec. 1, 1917	New York One Month Ago
Heavy melting steel scrap	$25.00 to 26.00	$23.50 to 24.50
No. 1 railroad wrought	32.00 to 33.00	32.00 to 33.00
Stove plate	20.00 to 20.50	18.00 to 19.00
No. 1 machinery cast	26.00 to 27.00	26.00 to 27.00
Machine shop turnings	15.00 to 16.00	14.00 to 15.00
Cast borings	17.00 to 18.00	16.00 to 17.00
Railroad malleable cast	27.00 to 28.00	27.00 to 28.00

	Chicago Dec. 1, 1917	Chicago One Month Ago
No. 1 railroad wrought	$25.00 to 26.00	$28.50 to 29.00
Stove plate	16.50 to 17.00	15.50 to 16.50
No. 1 machinery cast	20.50 to 21.00	20.00 to 21.00
Cast borings	16.50	14.25 to 15.25
Machine shop turnings	16.50	15.00 to 15.50
Railroad malleable cast	26.00 to 26.50	24.00 to 25.00

	St. Louis Price Delivered Dec. 1, 1917	St. Louis Price Delivered One Month Ago
No. 1 railroad wrought	$30.50 to 31.00	$29.00 to 30.00
Stove plate	16.50 to 17.00	10.00 to 11.00
No. 1 machinery cast	19.00 to 20.50	19.00 to 20.00
Machine shop turnings	16.75 to 17.25	14.00 to 15.00
Cast borings	16.50 to 17.00	12.00 to 13.00
Railroad malleable cast	25.50 to 26.00	24.00 to 25.00

Proposals

For Proposals Advertised See Pages 59 to 63 Inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
Dec. 10.	New York, N. Y.	Dec. 6
Dec. 10.	Lamoille, Ill.	Dec. 6
Dec. 12.	New York, N. Y.	Dec. 6
Dec. 20.	Wooster, Ohio Adv. Nov. 29 and Dec. 6.	Nov. 29

SEWERS

Dec. 10.	Lake Andes, S. D. Adv. Dec. 6.	Nov. 22
Dec. 11.	Oklahoma, Okla.	Dec. 6
Dec. 11.	Columbus, O.	Dec. 6
Dec. 11.	Mansfield, O.	Dec. 6
Dec. 12.	Glasgow, Neb.	Dec. 6
Dec. 12.	New York, N. Y.	Dec. 6
Dec. 19.	Baltimore, Md.	Dec. 6
Dec. 30.	Rocky River, Ohio	Nov. 29

BRIDGES

Dec. 10.	St. Augustine, Fla.	Nov. 15
Dec. 10.	St. Paul, Neb.	Nov. 29
Dec. 10.	Spartanburg, S. C.	Dec. 6
Dec. 11.	Nelson, Pa.	Nov. 29
Dec. 11.	Harrisburg, Pa.	Dec. 6
Dec. 12.	New York, N. Y.	Nov. 22
Dec. 12.	Fairmount, W. Va. Adv. Dec. 6.	Dec. 6
Dec. 18.	Kansas City, Mo. Adv. Nov. 29 and Dec. 6.	Nov. 29
Dec. 18.	Beatrice, Neb.	Dec. 6
Dec. 18.	Princeton, Minn.	Dec. 6
Dec. 21.	Kansas City, Mo. Adv. Nov. 29 and Dec. 6.	Nov. 29
Dec. 21.	Pocatello, Idaho	Dec. 6
Dec. 21.	Necedah, Wis.	Dec. 6
Dec. 22.	Livingston, Ala.	Nov. 29

STREETS AND ROADS

Dec. 10.	Washington	Nov. 29
Dec. 10.	Gilmer, Tex.	Nov. 29
Dec. 10.	Sacramento, Cal.	Dec. 6
Dec. 10.	Fresno, Cal.	Dec. 6
Dec. 10.	Akron, O.	Dec. 6
Dec. 10.	Pleasant Hill, Mo.	Dec. 6
Dec. 10.	Spartanburg, S. C.	Dec. 6
Dec. 10.	Sacramento, Cal.	Dec. 6
Dec. 10.	Seattle, Wash.	Dec. 6
Dec. 11.	Calexico, Cal.	Dec. 6
Dec. 11.	East View, O.	Dec. 6
Dec. 11.	St. James, Minn.	Nov. 22
Dec. 11.	Granite Falls, Minn.	Nov. 22
Dec. 11.	Geneva, Ala.	Nov. 29
Dec. 11.	Pennsylvania Adv. Nov. 29 and Dec. 6.	Nov. 29
Dec. 12.	Anderson, Ind.	Nov. 29
Dec. 12.	Knox, Ind.	Dec. 6
Dec. 12.	New York, N. Y.	Dec. 6
Dec. 12.	Brooklyn, N. Y.	Dec. 6
Dec. 15.	Jasper, Ala.	Nov. 29
Dec. 15.	Fitchburg, Mass. Adv. Nov. 29	Nov. 29
Dec. 15.	Hatley, Que.	Dec. 6
Dec. 17.	Los Angeles, Cal.	Dec. 6
Dec. 17.	Okmulgee, Okla. Adv. Nov. 29 and Dec. 6.	Dec. 6
Dec. 17.	Everett, Wash.	Dec. 6
Dec. 22.	Dayton, O.	Dec. 6
Dec. 27.	Elizabeth, N. J.	Nov. 29
Dec. 29.	Huntington, Ind.	Dec. 6
Dec. 31.	Bay Minette, Ala.	Dec. 6

EXCAVATION AND DREDGING

Dec. 10.	Clarion, Ia.	Nov. 29
Dec. 11.	Madison, Minn.	Dec. 6
Dec. 14.	El Centro, Cal.	Nov. 29
Dec. 14.	Ivanhoe, Minn.	Dec. 6
Dec. 14.	Buffalo, Minn.	Dec. 6
Dec. 15.	Sheboygan, Wis.	Dec. 6
Dec. 15.	Toronto, Ont.	Dec. 6
Dec. 18.	Elbow Lake, Minn.	Dec. 6
Dec. 20.	Albany, N. Y. Adv. Nov. 29 and Dec. 6.	Nov. 29

BUILDINGS

Dec. 8.	Gary, Ind.	Dec. 6
Dec. 10.	East Cleveland (Cleveland P. O.) O.	Nov. 22
Dec. 10.	Syracuse, N. Y.	Dec. 6
Dec. 10.	Akron, Ohio	Dec. 6
Dec. 12.	Wellesley, Mass.	Dec. 6
Dec. 12.	New Hampton, N. Y.	Dec. 6
Dec. 15.	Gallup, N. M.	Nov. 29
Dec. 15.	Kokomo, Ind.	Dec. 6
Dec. 17.	Kenmore, Ohio	Nov. 29
Dec. 17.	New Paltz, N. Y. Adv. Nov. 29 and Dec. 6.	Nov. 29
Dec. 17.	Pittsburgh, Kan.	Nov. 29
Dec. 17.	East Cleveland (Cleveland P. O.) O.	Dec. 6
Dec. 17.	Miami, Okla.	Dec. 6
Dec. 18.	Kansas City, Mo. Adv Nov. 29	Nov. 29
Dec. 21.	Shaker Heights (Cleveland P. O.) O.	Dec. 6
Dec. 22.	Oxford, Ohio	Dec. 6
Dec. 24.	Cleveland, Ohio	Dec. 6
Jan. 1.	Wichita, Kan.	Nov. 22
Jan. 15.	New York, N. Y.	Nov. 29

INDUSTRIAL WORKS

Dec. 10.	Syracuse, N. Y.	Dec. 6
Dec. 11.	Albany, N. Y. Adv. Nov. 29 and Dec. 6.	Dec. 6

FEDERAL GOVERNMENT WORK

Dec. 10.	Foam Fire Protection — Guantanoma, Cuba	Nov. 8
Dec. 10.	Heating System—Philadelphia, Pa.	Nov. 15
Dec. 10.	Refrigerating Apparatus, etc.—Washington, D. C. Adv. Nov. 22.	Nov. 22
Dec. 10.	Cranes—Philadelphia, Pa.	Nov. 29
Dec. 10.	Piping, etc.—Philadelphia, Pa.	Nov. 29
Dec. 10.	Cranes — New London, Conn.	Nov. 29
Dec. 10.	Garage—Newport, R. I.	Nov. 29
Dec. 10.	Building — Washington, D. C.	Dec. 6
Dec. 11.	Stone—New Orleans, La. Adv. Dec. 6.	Dec. 6
Dec. 12.	Generating Sets — Washington, D. C.	Dec. 6
Dec. 12.	Bridge—Fairmont, W. Va. Adv. Nov. 29	Nov. 29
Dec. 14.	Rip Rap—Galveston, Tex. Adv. Nov. 29 and Dec. 6.	Nov. 29
Dec. 17.	Post Office—Denton, Tex.	Nov. 8
Dec. 17.	Wharf and Boathouse—Santa Rosa, Fla. Adv. Nov. 29 and Dec. 6.	Nov. 29
Dec. 17.	Motor Generator Sets — Washington, D. C.	Dec. 6
Dec. 17.	Seaman Gunners' Quarters Washington, D. C.	Dec. 6
Dec. 18.	Laterals — Torrington, Wyo.	Nov. 1
Dec. 19.	Dredging—San Francisco, Cal.	Dec. 6
Dec. 21.	Dredging — Philadelphia, Pa.	Nov. 29
Dec. 26.	Sewerage System, Water Supply Intake, Reservoir —Washington, D. C.	Dec. 6
Dec. 27.	Post Office — Alexandria, La. Adv. Nov. 22 and 29.	Nov. 22
Dec. 27.	Steam Heating System—Shawnee, Okla.	Dec. 6
Jan. 4.	Buildings — Grande Isle, La. Adv. Dec. 6.	Dec. 6
Jan. 7.	Post Office — Eldorado, Kan.	Dec. 6
Jan. 7.	Post Office — Shawnee, Okla.	Dec. 6
Jan. 28.	Post Office—Sunbury, Pa.	Dec. 6

MISCELLANEOUS

Dec. 17.	Docks—Seattle, Wash.	Dec. 6
Jan. 2.	Improving Harbor — Newport, Ore. Adv. Nov. 29 and Dec. 6.	Nov. 29

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

WATER-WORKS

Proposed Work

Mass., Worcester — City plans to issue $200,000 bonds to improve water-system on Asabumskit water shed and Pine Hill dam. F. A. McClure, city engr.

Pa., Quarryville — Boro. voted $25,000 bonds to build water system. P. Helm, secy.

Md., Hagerstown—Washington Co. Water Co. having surveys made in Blair's Valley, relative to constructing reservoir to increase water supply in Hagerstown.

Va., Hopewell—City plans to issue $75,000 bonds to build water, sewer and electric-light systems.

N. C., Durham—City plans to issue $100,000 bonds to build water system, including pumping equipment, reservoir, etc. G. W. Woodward, clk.

Fla., Titusville—City voted $40,000 bonds to improve water-works.

O., Logan — Village will issue $15,000 bonds to build water system.

O., Sebring—City voted $125,000 bonds to purchase water system and build filtration plant. Noted Oct. 4.

Ind., South Bend — City plans to build 225,000 gal. reservoir. F. J. Anderson, city engr.

Mich., Grand Rapids—(Official)—City to sell $100,000 bonds to improve water system. G. J. Wagner, city engr.

Ill., Chicago—City plans to install water service pipes, etc., during 1918. About $500,000. J. Ericson, city engr.

Wis., Campbellsport — Village having plans prepared by J. Donna, engr., 720 New York Ave., Sheboygan, for water and sewerage systems. Noted Aug. 16.

Wis., Hartford—City having plans prepared by A. Martin, engr., Hartford, building pump house and reservoir. About $20,000.

Ia., Beloit—Village plans to install water-works.

Minn., St. Cloud—See "Sewers."

Kan., Lawrence — City to sell $18,000 bonds to improve water system, including 10 meters, well, and transmission lines. C. H. Dunmire, city engr.

Mo., Bowling Green—See "Buildings."

Tex., Ft. Worth—(Official)—City having plans prepared by J. H. Gregory, engr., 170 Bway., New York City, improving water filtration plant, including additional rapid filters, new filters, settling basins, mixing chamber, chemical house, and aeration chamber. About $85,000. Noted June 14.

Okla., Anthon—City plans to build water system.

Okla., Jenks—City election son to vote on bonds to build water system.

Okla., Pawhuska—City to issue $20,000 bonds to improve water system.

Okla., Quapaw—City election Jan. 1 to vote on $75,000 bonds to build water and sewerage systems.

Okla., Yale—City plans to improve water systems.

Wash., Spokane — City voted $10,000 bonds to build water system in Empire Heights. A. G. Butler, city engr.

Cal., Mercer—City plans to build water and light systems. C. D. Martin, city engr.

Water-Works (Continued)

Ont., Wallaceburg—Town Council plans to improve water-works. L. G. McNeice, city engr.

BIDS DESIRED

N. Y., New York—(Official)—Until Dec. 10, by W. Williams, comr. water supply, gas and electricity, Municipal Bldg., hauling and laying water mains and appurtenances in East 177th St. (Bronx Boro.)

N. Y., New York—(Official)—Until Dec. 12, by W. Williams, comr. water supply, gas and electricity, Municipal Bldg., for laying water mains and appurtenances in 5th Ave. and Delancy St., to connect with shafts Nos. 18 and 20 of City tunnel, Catskill Aqueduct; also cross-connections existing trunk mains in Bway., Central Park West, Amsterdam, Columbus, 8th and 9th Aves., and in West 42nd St.

N. J., Jersey City—(Official)—Until Dec. 11, by Bd. City Comrs. furnishing and delivering 20 tons special castings, hydrant connections, plugs, caps, sleeves, bends, branches, etc.; also c.i. water pipe, 50 tons water gate boxes and covers, also manhole heads and covers. F. A. Dolan, city clk. C. A. Van Kuren, city engr.

Md., Baltimore—Until Dec. 19, by City, for brass pipes, fittings, brass and bronze castings, lead lined wrought iron pipe and fittings, c.i. pipe and fittings, etc. W. E. Lee, water engr.

Ill., La Moille—(Official)—Until Dec. 10, by F. A. Rambo, village clk., improving water system, including water mains, fire hydrants, etc. About $19,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

O., Wooster—City received low bids improving water system, (a) stand pipe, (b) furnishing 575 tons, 16-in. pipe, (c) pump house, from L. J. Wrench Co., Chicago, (a) $16,580; Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, (a) $17,050; Chicago Bridge & Iron Co., 37 Van Buren St., Chicago, (a) $22,480; Massillon Iron & Steel Co., Massillon, O., (b) $54.85; Hardware & Supply Co., Hower Bldg., Chicago, (b) $55; United States Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, and Amer. Cast Iron Co., 1 Bway., New York City, (b) $55.15; Keystone Drilling Co., Beaver Falls, Pa., (c) $1650. Noted Nov. 8.

★**Neb., Sidney**—City let contract building extension to water and sewer mains, to Gordon Constr. Co., 334 Century Bldg., Denver. Noted June 21.

★**Wash., Bremerton**—City let contract building concrete reservoir for water system to W. B. Lance, Northern Bank Bldg., Seattle, $39,456. Noted Nov. 29.

★**Ont., Stratford**—City let contract building water basin on Romeo St., to A. G. Everitt, Chestnut St. About $15,000. Contractor is in market for 150 bags portland cement. Noted Nov. 1.

SEWERS

Proposed Work

N. J., Boonton—Jersey City Comrs. having plans prepared by C. Potts, engr., 30 Church St., New York City, for sewage disposal plant to be built here.

N. J., Pleasantville — City rejected bids building sewerage system. About $200,000. Noted Nov. 1.

Pa., Erie—City plans to build storm and sanitary sewers in Myrtle and other streets. About $70,000. F. G. Lynch, city engr.

Pa., Lewisburg — City defeated $25,000 bonds to build sewage disposal plant. Noted Sept 13.

Va., Hopewell—See "Water-Works."

Tenn., Kingsport — See "Streets and Roads."

O., Ashtabula—City plans to build sanitary sewers in Humphrey Pl., Samuel St., and Perryville Ave. L. A. Amsden, city engr.

O., Cincinnati—(Official)—City to issue $54,500 bonds to build sewers on California Ave., Reading Rd., Bank St. between Linn and Whiteman Sts., and other streets and avenues. F. S. Krug, city engr.

O., Youngstown—(Official) — City plans to build sewer on Hunter Ave. from Japan St. to City Lot 29314; on Hilton Ave., from Market St. to Southern Blvd.; on Sillman St. from Steel to Oneta St. F. M. Lillie, city engr.

Ind., Anderson—City having plans prepared for rebuilding sewerage system by providing greater drainage for southern part of city, also eliminating Green branch with large sewer. About $450,000. G. L. Clausen, 139 N. Clark St., Chicago, engr.

Mich., Grand Rapids—(Official)—City to sell $55,000 bonds, Dec. 10, to build sewers in Pearl, Sheldon, Fairbanks and Canton Sts., Sinclair Ave.; also Silver Creek sewerage system. G. J. Wagner, city engr.

Ill., Chicago—City plans to build 260 mi. of sewers in 1918. About $1,500,000. J. Ericson, city engr.

Wis., Campbellsport — See "Water-Works."

Wis., Madison—City having plans prepared building sanitary sewer in Orchard St. E. E. Parker, city engr.

Wis., Waukesha—City sold $10,000 bonds to build sewers. T. C. Martin, city clk.

Wis., Wrightstown — City having plans prepared by Orbert & Albert, engrs., Green Bay, building 1 mi. sewers. About $15,000.

Ia., Humboldt—City having plans prepared, buildings sewers and sewage disposal plant.

Ia., Iowa City—City plans to build 12 in. vitr. storm sewers in Lyon's addition between Dodge and Lucas Sts. S. N. Hands, city engr.

Minn., St. Cloud—City rejected bids laying sewers and water mains in 7th and 9th Aves. Work will be readvertised in the spring. C. E. Borrowman, city engr.

Mo., Kansas City—(Official) — City receives bids about Jan. 1, building 1st section Blue River sanitary sewer, from Missouri River to south city limits, about 13½ mi.; sewer will vary in size from 24 in. pipe at south city limits to 10 ft. rein.-con. section at Missouri River. About $2,000,000. A. D. Ludlow, engr. of sewers. Noted Nov. 29.

Okla., Cushing—City having plans prepared building sewer in Dist. No. 24. L. P. Wharton, clk.

Okla., McAlester—City plans to extend sewage disposal plant and outfall sewer. About $50,000. A. H. Kindrick, city engr.

Okla., Quapaw—See "Water-Works."

Okla., Tulsa—Council passed ordinance creating sewer in Dist. No. 133. H. H. Wyss, city engr.

BIDS DESIRED

N. Y., New York—(Official)—Until Dec. 12, by M. M. Marks, boro. pres., building emergency repairs to outlet sewer in East 42nd St. from East River to 3rd Ave.

O., Columbus—(Official)—Until Dec. 11, by G. A. Borden, dir. pub. serv., building sewers on Markeson Ave., from 17th to 18th St., in alley north of 17th Ave. from alley east of Cleveland Ave., on 16th Ave. from Cleveland Ave. to alley east, thence to alley north; on 15th Ave. from Cleveland Ave. to alley east. H. Maetzel, city engr.

Mont., Glasgow—Until Dec. 12, by City, building sanitary and drainage sewer in Dist. No. 38. C. H. Blitman, city engr.

O., Mansfield—(Official)—Until Dec. 11, by Secy. Bd. Control, building 8 in sewer on Diamond and Ford S'ts, from center of Inlot No. 1650 to Woodville Rd, in south side of South Diamond St., and from point in front of Inlot No. 915 to Diamond St. on south side of Ford St. W. J. Hazleton, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pa., Oil City**—(Official)—City let contract building storm sewers in portions Alcorn and Siverly Aves. and Wayne St.; also sanitary sewers in portions Alcorn, Siverly, Keith, Pierce and Kramer Aves., Wayne and Martin Sts., involving 13,000 ft., 6-18 in 18-24 ft., terra cotta pipe, 390 ft. 18-24 in. rein.-con. pipe to Lesher & Roess, Oil City, $20,413. Noted Nov. 1.

★**Ind., Indianapolis** — City let contract building sewer on East 30th St., between Hillside Ave. and School St., to Columbia Constr. Co., Indianapolis, $93,687. Noted Nov. 1.

★**Ia., Sioux City**—City let contract building sewer on Meyer Ave., outlet to South Morningside sewerage system, to F. T. Leeder, 73c. per ft. 8-in. pipe, either vitr. or concrete.

★**Kan., Augusta**—City let contract building storm sewer, to McCoy & Taylor, Wichita, $16,000.

★**Neb., Sidney**—See "Water-Works."

★**Mo., Carthage**—City let contract building trunk line sewer in western part of city, to McDonald Constr. Co., Moberly, $30,000. Noted Nov. 29.

★**Mo., Kansas City** — City let contract building sewer in Dist. No. 409, Div. No. 5 to C. H. Crosby, $49,526.

★**Tex., Seguin**—City let contract building sewerage system and sewage disposal plant, to Kirkwood & Wharton, San Antonio, $29,835. Noted Oct. 25.

BRIDGES

Proposed Work

W. Va., Fairmont—(Official)—Until Dec. 12, by City, building rein.-con. bridge over Monongahela River; A. J. Kern, city clk.; advertised in this issue.

Ky., Paducah—City plans to build rein.-con. bridge over Island Creek on Bridge St. L. A. Washington, comr. pub. wks. About $17,000.

Ia., Dyersville—Dubuque Co. had plans prepared for rein.-con. bridge, two 70-ft. spans, 40 ft. roadway, 6 ft. sidewalks. About $32,000. W. B. Turlay, co. engr.

Minn., Ballclub—Itasca Co., Grand Rapids, soon lets contract building bridge over Mississippi River. About $20,000.

Minn., Mazeppa—City retained J. H. A. Brahtz, engr., Commercial Bldg., St. Paul, to prepare plans for rein.-con. and steel bridge. About $40,000.

Ark., Little Rock—Pulaski Co. receives bids about Jan. 15, building rein.-con. bridge, 40 ft. wide between curbs with 8 ft. walks. About $800,000. W. Donaghey, Bankers Trust Bldg., chn. comrs. D. C. Luten, Indianapolis, Ind., engr.

Okla., Holdenville—See "Streets and Roads."

Wash., Port Orchard—See "Streets and Roads."

Cal., Red Bluff — Bd. Supervs., Tehama Co., had plans prepared by Weeks & Day, engrs., Phelan Bldg., San Francisco, for following rein.-con. bridges: 12 span over Thomas Creek, cost, $100,000; 8 span over Deer Creek, $50,000; 4 span over Mill Creek, $40,000; 4 span over Red Bank Creek, $40,000; 400-ft. bridge over Toomes Creek, $30,000; 4 span over Dry Creek, $10,000; 3 span over Antelope Creek; also subway under Southern Pacific tracks, $20,000.

BIDS DESIRED

Pa., Harrisburg—(Official)—Until Dec. 11 by State Pub. Grounds & Bldgs. Dept. for 180-ft. steel truss bridge with solid floor and stone abutments. C. A. Flink, 301-303 Commonwealth Trust Bldg., engr.

S. C., Spartanburg—Until Dec. 10, by Spartanburg Co. Highway Comn., building 5 concrete bridges in connection with some road work.

Wis., Necedah—(Official)—Until Dec. 21, by Juneau Co. building, Pentenwell Bridge over Wisconsin River, between Necedah and Strongs Prairie, Adams Co., consisting of four 40-ft. riveted truss spans and 18-ft. roadway, involving 197 tons steel, 711 cu.yd. concrete, wood-block floor, piles and riprap. M. W. Torkelson, engr.

Neb., Beatrice—Until Dec. 18, by E. P. Burnham, clk., Gage Co., building one 45 ft. and one 50 ft., 3 panel, pin connected low truss bridges, 15-ton steel span, 16-ft. roadway and wooden floors, Sects. 9 and 16, Liberty Twp.

Okla., Okmulgee — See "Streets and Roads."

Tex., Canyon—See "Streets and Roads."

Idaho, Pocatello—Until Dec. 21, by Bannock Co. Comrs., building 60 ft. steel bridge over Port Neuf River, south of Pocatello. C. W. Pomeroy, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Winchendon**—Town let contract building bridge in Spring St., to Wiley & Foss, Central and Brook Sts., Fitchburg, $19,000.

Bridges (Continued)

★**S. C., Charleston**—(Official)—Sanitary and Drainage Comn., Charleston Co., let contract building steel draw bridge over Dawhoo River, to Austin Bros., 156 Greenwood Ave., Atlanta, Ga., $28,500. Noted Nov. 8.

Fla., Miami—Dade Co. received only bid building bridge across Snake Creek Canal from Champion Bridge Co., Wilmington, Ohio, $11,995. Noted Nov. 15.

★**Neb., North Platte**—Lincoln Co. let contract rein.-con. bridge over South Platte River, to E. F. Pettis, Lincoln. About $10,000. Noted Sept. 27.

★**Mont., Myers**—State Highway Comn., Helena, let contract 152-ft. steel span bridge to Security Bridge Co., Billings. About $11,800.

★**Okla., Bartlesville**—Washington Co. let contract building 8 bridges, to Rochester Bridge Co., Bartlesville, $73,284. Noted Nov. 15.

STRUCTURAL STEEL WORK

Proposed Work

Minn., Mazeppa—See "Bridges."

BIDS DESIRED

Pa., Harrisburg—(Official)—See "Bridges."
Neb., Beatrice—See "Bridges."
Mo., Kansas City—See "Streets and Roads."
Idaho, Pocatello—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mont., Myers**—See "Bridges."

REINFORCED CONCRETE

Proposed Work

N. J., Ocean—See "Buildings."
Pa., Johnstown—See "Industrial Works."
Ky., Paducah—See "Bridges."
Ala., Birmingham—See "Industrial Works."
Ill., Chicago—See "Industrial Works."
Ia., Burlington—See "Industrial Works."
Ia., Davenport—See "Industrial Works."
Minn., Mazeppa—See "Bridges."
Neb., Omaha—Office and Service Station—See "Buildings."
Mo., Kansas City—See "Sewers."
Ark., Little Rock—See "Bridges."
Tex., Canyon—See "Streets and Roads."
Ariz., Tuscon—See "Industrial Works."
Cal., Red Bluff—See "Bridges."

BIDS DESIRED

N. Y., Syracuse—See "Industrial Works."
S. C., Spartanburg—See "Streets and Roads."
Wis., Necedah—(Official)—See "Bridges."
Minn., Princeton—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Bridgeport**—Tunnel—See "Miscellaneous."
★**N. J., Bloomfield**—See "Industrial Works."
★**Pa., Oil City**—See "Sewers."
★**O., Sandusky**—See "Buildings."
★**Ind., Terre Haute**—See "Buildings."
★**Ill., Chicago**—See "Industrial Works."
★**Kan., Wichita**—See "Industrial Works."
★**Neb., North Platte**—See "Bridges."
★**Wash., Bremerton**—See "Water-Works."

STREETS AND ROADS

Proposed Work

R. I., Warwick—Town plans to appropriate $30,000 for building following roads: Pawtuxet Ave., Norwood; Gate Rd. from Apponaug to Norwood; Warwick Neck Rd. from Warwick Sta. south and Buttonwoods from Carpenter Corner to Budlongs Corner.

N. Y., Rochester—City plans to pave portion Thurston Rd., asphalt, and Jones St., brick. About $21,000 and $15,000, respectively. F. Elwood, city engr.

N. J., Bayonne—(Official)—City rejected all bids received Nov. 27 for laying concrete sidewalks on East 22nd St. W. L. Clarkson, city engr. Noted Nov. 15.

N. J., Freehold—Bd. Freeholders Monmouth Co., plan to issue $75,000 bonds, to be used towards building 3rd, 4th, 5th, and 7th sections, Pennsgrove-Malaga State Rd. G. D. Cooper, Red Bank, co. engr.

N. J., Salem—Bd. Freeholders Salem Co. plans to issue $75,000 bonds for road work in Pennsgrove Twp.

Pa., Harrisburg — (Official) — Council passed ordinance to pave and curb Bailey St. from 12th St. to property of Messiah Rescue Home. M. B. Cowden, city engr.

Pa., New Brighton—Boro. plans paving, grading and widening sidewalks on 7th Ave. from 14th and 15th St.; 8th Ave. from 9th to 10th St., 14th Ave. from 2nd to 5th St., and 3rd Ave. H. T. Barber, boro. engr.

Pa., Pittsburgh—Allegheny Co. plans to build 50-ft. rein.-con. boulevard from end East Carson St. to McKeesport. About $650,000.

Pa., Pittsburgh—City passed ordinance to grade, pave and repave portion Bigelow Blvd., also pave, grade and curb South Side Ave., from Hespen St. to Sunset Ave. R. Swan, city engr.

Ga., Albany — Dougherty Co. plans to build 10 mi. highway between Albany and Acree.

Ga., Waycross—Ware Co. Comrs. voted to pave 20 mi. Dixie Highway between Waycross and Pierce County line with Beech Island gravel.

Ala., Mobile—Chickasaw Shipbuilding Co., Mobile, plans to build streets and sidewalks for town occupied by employees of plant. J. F. Coleman, genl. supt.

Miss., Iuka—Tishominge Co. sold $30,000 bonds to construct Muscle Shoals Highway. Noted Sept. 13.

La., Monroe — Ouachita Parish Police Jury plans election Feb. 3 to vote on $1,050,000 bond issue for road work, drainage, courthouse and jail.

Tenn., Kingsport — Kingsport Impvt. Corp. plans to grade streets, build sidewalks and macadam driveway and install sewers. About $16,000.

O., Ashtabula—City preparing plans paving Prospect St. from Ann to Division St. L. A. Amsden, city engr.

O., Lima—City plans to pave Main St. from Erie R.R. to O'Connor Ave., wood block. V. Miller, city engr. Noted Nov. 15.

O., Sidney—(Official) — City defeated $40,000 bond issue for opening and extending Poplar St. Noted Nov. 1.

O., Steubenville—City plans to pave and improve McLister and Murdock Aves., concrete. J. A. Leech, city engr.

O., Toledo—City Council passed resolution to pave Mallet Ave., rein.-con., also alley between Oakwood and Norwood Aves., brick. H. A. McClure, city engr.

O., West Union—A. B. C. Good Roads Assn. plans to rebuild 50 mi. State Market Rd. No. 6 through Adams, Brown and Clermont Cos. Address co. clk., West Union.

Ind., Anderson — Madison Co. plans to pave Frankton Rd., gravel and cement. About $39,606.

Ind., Danville—Hendricks Co. plans to build road through Guilford, Liberty and Franklin Twps. Federal Government and townships to appropriate $90,000 toward cost. Noted Oct. 18.

Ind., Lafayette—Tippecanoe Co. plans to build new Dresser Rd. About $96,330. G. Baxter, co. aud.

Mich., Flint — City plans laying about 125,000 sq.yd. paving and 500,000 sq.ft. of sidewalks. E. Shoecraft, city engr.

Mich., Grand Rapids—(Official)—City to sell $163,000 bonds Dec. 10, to grade and pave Tamarack, Alpine, Sheldon and Bostwick Aves., Lyon and Butterworth Sts. G. J. Wagner, city engr.

Ill., Beardstown — Town plans to pave Lafayette St. from the river to south end of town. J. Goodel, town engr.

Ill., Ottawa—La Salle Co. plans to improve 6900 ft. road, Deer Park Twp.

Ill., Peoria — City plans to resurface Bradley Ave. from Bourland Ave. to College St., concrete. E. N. Woodruff, city engr.

Ill., Winnetka — Winnetka and Kenilworth had plans prepared by Winston & Marsh, engrs., Winnetka, for paving [illegible] yd. Winnetka Ave., concrete. About $200,000.

Wis., Chippewa Falls — Chippewa Co. plans to build Eau Claire-Chippewa trunk line highway. About $28,000. W. N. Herbert, aud.

Wis., Eau Claire—Eau Claire Co. will expend $51,000 for road work. H. Nygaard, clk.

Wis., Monroe—Green Co. plans to construct Monroe-Monticello Rd. About $25,000. J. W. Stewart, co. clk.

Wis., Portage — Columbia Co. Comrs. voted $36,000 bonds to improve 7 mi. Portage-Columbia Rd. H. R. Tongen, aud. Noted Apr. 26.

Wis., Racine—City plans to pave following streets in 1918: Youth St., cost about $20,000; Asylum Ave., $9598; Milwaukee Ave., $5836; Osborne Blvd., $7279; Blake Ave., $5244; 13th, Howland, 10th, Main, Grange, Prospect, Carlisle, Albert, Geneva, 11th, Pearl Sts., Hilker and Davis Pl., St. Clair and Lake Aves., $80,019. P. H. Connolly, city engr.

Ia., Iowa City—Johnson Co. plans to improve 6½-mi. Kalona Rd. About $32,000. A. F. Fisher, co. engr.

Ia., Iowa City—City plans to pave Coralville Rd. from river to city limits. About $30,000. S. M. Hands, city engr.

Ia., Stuart—City soon lets contract paving 11 blocks.

Kan., Atchison—City soon lets contract paving about 28 blocks. F. S. Altman, city engr.

Kan., Baxter Springs—City having plans prepared by A. C. Moore, engr., Joplin, Mo., paving streets in business district, about 60 blocks. Noted Oct. 25.

Kan., Leavenworth — Golden Belt Rd. Dist., Leavenworth Co., had plans prepared building 19 mi. road. E. McNerney, chn.

Kan., Lindsborg—City plans to pave Main St., brick and concrete. Riddle & Riddle, Abilene, engrs.

Mont., Kalispell — Flathead and Teton Cos. plan to build Belton-Glacier Park Highway, from south side of Glacier Park, 57 mi. long, 12 mi. in Teton Co. and 45 mi. in Flathead Co.

Mo., Fulton—Callaway Co. voted $25,000 bonds to build roads. Noted Nov. 15.

Mo., Greenfield—(Official)—Dade Co. defeated $23,000 bond issue for improving roads between Everton, Ash Grove and Greenfield Twps. Noted Nov. 22.

Arkansas—State Highway Comn., Little Rock, having plans prepared for new road in Van Buren Co., from Formosa to county line via Shirley. About 30 mi. Cost, $64,000.

Ark., Jasper—Newton Co. Comrs. plan building 20 mi. road from Mount Judy to western county line. About $44,000.

Tex., Athens — Henderson Co. Comrs. plan election to vote on $50,000 bonds to build roads.

Tex., Beaumont—Jefferson Co. Rd. Dist. No. 1 voted $500,000 bonds to complete highway between here and Port Arthur and to pave highways between Beaumont and Houston and Beaumont and Silsbee. Noted Oct. 25.

Tex., Canyon—(Official)—Randell Co. receiving bids about Jan. 15, grading roads and building rein.-con. culverts. About $65,000. Noted Nov. 8.

Tex., Centerville—Leon Co. plans election to vote on $250,000 bonds to build roads.

Tex., Dallas—City rejected bids opened Nov. 21 for paving Knight St., from Brown to Cedar Springs and Washington Ave. from Main to Worth St.

Streets and Roads (Continued)

Tex., Galveston—State Highway Comm., Austin, appropriated $10,000 to build roads in Galveston Co.

Tex., Gonzales—Gonzales Co. plans election to vote on $75,000 bonds to build and improve highways.

Tex., Longview—Gregg Co. voted $75,000 bond issue for road work. E. W. Davis, co. engr. Noted Oct. 11.

Tex., Madisonville — Madison Co., Precinct No. 1, voted $100,000 bonds to build 2 state and national highways. Noted Nov. 8.

Tex., Meridian—Bosque Co. Rd. Dist. No. 7, election Dec. 22 to vote on $40,000 bonds to build roads.

Tex., Montague — Montague Co. plans election to vote on $300,000 bonds to build roads.

Tex., Richmond—Ft. Bend Co. plans election to vote on $400,000 bonds to build roads, Rosenberg Twp.

Okla., Alva — Woods Co. sold $58,500 bonds for road work in Waynoke Twp.

Okla., Bartlesville — City rejected bids paving 2nd and 3rd Sts. from Dewey Ave. to railroad tracks. Work will be readvertised. E. D. Kirkpatrick, city engr. Noted Nov. 29.

Okla., Frederick — City Council passed resolution to issue $44,840 bonds for improving streets.

Okla., Holdenville—Hughes Co. voted $53,000 bonds to build roads and bridges in Barrard Twp.

Okla., Tulsa—Tulsa Co. at election Nov. 20 voted $1,750,000 bond issue to construct 108 mi. roads. L. Cline, co. clk. Noted Nov. 1.

Utah—Iron, Garfield, San Juan, Kane and Washington Cos. have joined formation Grand Canyon Highway Assn., Panguitch, Garfield Co., and plan to build roads in southern part of state. Cost to be borne by Federal Government, State and Grand Canyon Highway Assn. Noted June 21.

Wash., Everett—City had plans prepared building industrial roadway along water front to Blackman's Point. About $13,311. H. Mumm, city engr.

Wash., North Yakima — City plans to hard surface North 1st Ave. About $100,000. N. A. Gilman, city engr.

Wash., Olympia — Thurston Co. plans election in spring to vote on $600,000 bonds to build and improve highways.

Wash., Port Orchard—(Official)—Kitsap Co. lets contract in spring building permanent Highway No. 1C, about 2 mi., with riprap along beach, culverts, and 1 pile trestle, 195 ft. long. About $15,000. E. E. Boester, deputy co. engr. Noted Aug. 2.

Wash., Prosser—City plans to macadamize 3800 cu.yd. of roads from city limits to business section and replace wooden walks with concrete. About $11 727.

Wash., Tacoma—Pierce Co. plans to pave 2 mi. Pioneer Highway, leading through Orting toward South Prairie; also pave 1 mi. road in Buckley.

Wash., Tacoma—City soon lets contract building concrete sidewalks in district bounded by North 42nd, 43rd, 44th, and 46th Sts. from Cheyenne to Mullan St. About $20,400. W. C. Raleigh, city engr.

Ore., Bend—Deschutes Co. plans to spend $29,000 to build roads.

Ore., Coquille—Coos Co. plans to surface 11-mi. Bandon Rd. About $30,000.

Ore., Pendleton—City Council plans paving Union St. from 5th to 10th St., 9th from Union to 9th St. bridge, 10th St. from Union to Washington St.; Washington St. from 10th to Clay St.; Clay St. from Washington to Kelly Ave., Court from 5th to 8th St.; Washington St. from 5th to Fulton St.; Kelly St. from Fulton to Alvord St.; Federal St. from Alvord to Fulton St.; Laughlin St. from Alvord to Fulton St. grading Wilson St. from Madison to Bush St.

Cal., El Segundo—City plans to pave 2½ mi. of streets, macadam. About $29,000. A. W. Cory, city engr. Noted Oct. 18.

BIDS DESIRED

N. Y., Brooklyn—(Official)—Until Dec. 12, by L. H. Pounds, boro. pres., regulating, grading, and laying sidewalks on Sedgwick Pl., from 67th St. to Wakefield Pl.; regulating and paving roadway of 36th St. from Church to 15th Ave., and 86th St. from 21st to 22nd Ave., asphalt on 6-in. concrete foundation.

N. Y., New York—(Official)—Until Dec. 12, by M. M. Marks, boro. pres. regulating and repaving 10th St., from Stuyvesant St. to University Pl., asphalt on concrete foundation; 3rd Ave. from 6th to 8th St., wood block on concrete foundation; 3rd Ave. from 6th to 8th Sts., wood block on concrete foundation, water, tar, gas specifications.

N. Y., New York—(Official)—Until Dec. 12, by D. Mathewson, boro. pres. (Bronx Boro.), regulating, grading, curbing, laying sidewalks and crosswalks, building inlets, receiving basins, drains, and culverts, etc. in West 176th St. from Jerome Ave. to Macombs Rd.; also sewer in Barkley Ave. between Clarence Ave. and Long Island Sound.

S. C., Spartanburg — (Official) — Until Dec. 10, by Comrs. Spartanburg Co., building Sect. B of Natl. Highway, 12.06 mi., in Spartanburg, Reidville and Beach Springs Twps., 20 ft. top soil roadway; also to construct Fair Forest Rd., 3½ mi. 20-ft. top soil roadway, Contr. No. 6 and building 5 concrete bridges, Contr. No. 7. Reid Tull, co. highway engr.

Ala., Bay Minette — Until Dec. 31, by Baldwin Co., building 4 mi. Bay Minette and Daphne Rd., between Stapleton and Daphne, involving 12,000 cu.yd. excav., 510 lin.ft. pipe. Noted Oct. 4.

O., Dayton—Until Dec. 22, by Montgomery Co., widening Dayton and Greenville Rd. at Salem. A. Knoop, co. engr.

O., East View—Until Dec. 11, by Town, grading, draining, curbing, paving and building sidewalks, portion Lee Rd. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Huntington—(Official)—Until Dec. 29, by Grant Co., building stone road between Van Buren Twp. and Jefferson Twp. M. McRae, aud.

Ind., Knox—(Official) — Until Dec. 12, by Bd. Trustees, improving Lake St. from Main St. to western end of same; Shields St. from Lake St. to South line of New York St.; Delaware St. from Main to Shields St., asphalt, bitulithic, or wood block. R. Thompson, clk.

Minn., Princeton—Until Dec. 18, by W. C. Doan, Millelacs Co. aud., building Minnesota Federal Aid Project No. 3 involving 33,459 cu.yd. gravel surfacing, building 9 rein.-con. bridges and two 16-ft. one 20 ft., two 30-ft. and one 70-ft. beam span bridges. Noted June 7.

Mo., Pleasant Hill—(Official)—Until Dec. 10, by City building about 9000 sq.yd. macadam pavement. Noted Nov. 29.

Okla., Miami—(Official)—Until Dec. 17, by Ottawa Co. Comrs., building state and county roads. About $350,000. J. A. Walker, clk. Noted Nov. 22.

Okla., Okmulgee—(Official)—Until Dec. 17, by Okmulgee Co. Comrs., grading and building culverts and paving about 118 mi. roads. H. Hart, chn.; advertised in this issue.

Wash., Everett—(Official)—Until Dec. 17, by Snohomish Co. Comrs., building Permanent Highway No. 32. M. Weatherbee, co. aud. Noted Oct. 4.

Wash., Pasco—Until Dec. 15, by Franklin Co., graveling 30 mi. highways and grading and graveling 7 mi. J. W. Ketner, co. engr.

Wash., Seattle—(Official)—Until Dec. 10, by Puget Mill Co., Walker Bldg., for grading, curbing, building cement walks and water mains in Westholme Addition on Fauntleroy and 35th Aves. About $65,000. Address E. Folsom. Noted Nov. 15.

Cal., Calexico—Until Dec. 11, by City, paving main streets with bitulithic 5-in. concrete base and 2-in. top, and other streets with warrenite, 4-in. concrete base and 1½-in. top. Following are streets to be paved:

2nd St., full width to Blair Ave. and strip 20 ft. wide in center of street from Blair to east city limits.

Imperial Ave., full width to 7th St. and strip 20 ft. wide in center of street from 7th St. to north city limits.

Heber Ave., full width from 2nd to Sherman Sts., to north end of high school grounds.

3rd St., widened to 56 ft. and paved full width to Mary St.

7th St., full width from Emerson to Heber St.; 4th, 5th, and 6th Sts., from Emerson to Imperial Sts.

7th St., from Imperial to Heber St., and 3rd St., from Heber to Mary St.; Emerson St., full width from 3rd to 7th St. Noted Nov. 15.

Cal., Fresno—Until Dec. 10, by D. M. Bernwell, Fresno Co., clk., building Shaver-Big Creek Rd. and portion Millwood Rd. near Squaw Valley.

Cal., Los Angeles—Until Dec. 17, by Los Angeles Co. Supervs., building macadam pavement on Doheny Drive between Wilshire Blvd. and Santa Monica Blvd., Rd. Dist. No. 3. Work involves 1918 cu.yd. excav., 3443 lin.ft. shaping road bed, 2661 sq.ft. concrete gutter, 4 in. thick, hauling and placing 839 lin.ft. cement curb, 5 x 8 x 12 in. and 382 lin.ft. 5 x 9 x 15 in., hauling and placing 1321 lin.ft. macadam pavement.

Cal., Sacramento—(Official)—Until Dec. 10, by Sacramento Co., building highway on Sacramento River Levee of Grand Island, 13.25 mi. long, involving about 17,278 cu.yd. concrete.

Que., Hatley—(Official)—Until Dec. 15, by H. B. Whitcomb, secy.-treas. building portion Massawippi and Compton Rds.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—M. E. Connolly, boro. pres. (Queens Boro.), received low bids regulating, grading, curbing and paving (a) Glasser St. from Sandol St. to Cypress Hill Rd., (b) Hill St. from Hunterspoint to Thomson Ave., (c) Beach 117th St. from Ocean to Washington Ave., from Boro. Asphalt Co., 1301 Metropolitan Ave., Brooklyn, (a) $11,817, (c) $17,604; Uvalde Asphalt Paving Co., 1 Bway., (a) $12,450, (c) $19,407; E. W. Fitzpatrick, 128 3rd Ave., Astoria, (b) $10,788; Degnon Contg. Co. 30 East 42nd St., (b) $13,805; Peace Bros. 20 Main St., Flushing, (b) $18,240. Noted Nov. 22.

★**N. Y., Rochester**—City let contract grading and building sidewalks and sewers on Grand Ave., to F. V. Brotsch Co., E. & B. Bldg., $25,335. Noted Oct. 11.

★**N. Y., Wingdale**—Comn. on New Prisons, Hall of Records Bldg., New York City, let contract grading at Wingdale Prison, to Fallkill Constr. Co., 1 Washington St., Poughkeepsie, $40,000. Noted Nov. 8.

★**N. J., Hackensack** — Bd. Freeholders Bergen Co. let contract grading sidewalks on Paterson Plank Rd. in Boros. of East Rutherford and Wallington, to C. M. Brewster Constr. Co., $18,257.

★**N. J., Jersey City** — Bd. Freeholders Hudson Co., let contract furnishing crushed stone for Newark Turnpike, to W. J. Coughlin, 665 Newark Ave., $3.15 per ton. Noted Nov. 22.

★**N. J., Trenton**—(Official) — Bd. Freeholders Mercer Co. let contract paving approaches to Bakers Basin Bridge on Brunswick Pike Rd., to C. A. Reid Co., Trenton, $12,406. Noted Nov. 22.

★**Pa., Phila.**—G. E. Datesman, dir. pub. serv. let contract building portion Parkway east of 17th St., to Race St., to J. J. McHugh, 1430 South Penna Sq., about $47,000. Noted Nov. 29.

★**S. C., Chester**—Chester Co. let contract building roads to J. T. Blassingame, Greenville, S. C., $100,000. Noted Apr. 12.

Fla., Miami—Dade Co. received lowest bid building rock roads in Sect. No. 1, from Seminole Constr. Co., Miami, 7 in. thick, $42,889, 10 in. thick, $57,776; Sects. 2, 3 and 4, E. E. Collins, $33,250. Noted Nov. 15.

★**Ala., Enterprise**—City let contract paving streets, vitr. brick, cement concrete, bituminous concrete, macadam concrete, etc. to Southern Clay Mfg. Co., James Bldg., Chattancoga, $29,391. Noted Nov. 8.

★**Indiana**—Bd. Co. Comrs. let contract building roads in various townships as follows:

Floyd Co., New Albany, building 8568 ft. road, Georgetown Twp. to S. T. Games, R.R. 3, New Albany, $10,500.

Streets and Roads (Continued)

Madison Co., Anderson; building 16,006 ft. road on line between Madison and Delaware Cos., to Sullivan & Sullivan, Alexandria, $9165. Noted Nov. 8.

Ind., Kendallville—City received low bids paving South Main and Williams Sts., and certain alleys in downtown district, from Moellering Constr. Co., Murray St., and Brooke Constr. Co., 2104 Nuner St. About $52,557. Noted Oct. 25.

★**Minn., Hibbing**—St. Louis Co. let contract paving Dupont and Dublin Rds., to Malloy Bros., $32,627.

★**Minn., St. Peter**—Nicollet Co. let contract building State Rd. Nos. 5 and 9, to A. W. Webster.

★**Mo., Rock Port**—City let contract improving about 7 mi. of streets, to Western States Constr. Co., 782½ Brandeis Bldg., Omaha, $53,400.

★**Ark., Forrest City**—St. Francis Co. let contract building 42 mi. gravel, concrete and asphaltic concrete roads. Dists. No. 1 and 2 to Lewelling & Price Williams, Little Rock, $253,000. Noted Aug. 23.

★**Tex., Wheeler**—Wheeler County let contract building roads, Rd. Dist. No. 2, to Smith Bros., Crockett, $35,000. Noted Apr. 26.

★**Okla., Ardmore**—City let contract paving 3rd Ave., S.W., from H to L Sts., asphalt, to Ardmore Constr. Co., Ardmore, $15,359.

★**Okla., Oklahoma**—City let contract paving 13th St. from Lindsay Ave., asphalt, to Western Paving Co., 518 Terminal Bldg. About $12,510. Noted Sept. 13.

Wash., Clarkston—City received low bid gravel surfacing and grading 6 mi. streets from B. Bragg, Lewiston, Idaho, $1.33 per cu.yd. and 40c. per yd. respectively. Noted Nov. 8.

★**Ore., Pendleton**—City let contract paving Lewis St. from Lee to Beauregard St., and Wilson St. from Madison to Main St., to Warren Constr. Co., Journal Bldg., Portland, $10,000.

★**Cal., Los Angeles**—Los Angeles Co. let contract grading and paving portion Azusa Ave., Rd. Dist. No. 135, involving 32,000 sq.yd. concrete pavement, for which county furnishes cement, gravel and corrugated metal culverts, to Redondo Constr. Co., 218 South Redondo Ave., $18,500. Noted Nov. 1.

★**Cal., San Pedro**—Outer Harbor & Dock Co. let contract paving Miner Fill, to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., San Francisco. About $10,150.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

Georgia—State R.R. Comn. granted permission to Atlanta & Anderson Ry. to issue $18,000,000 bonds for building interurban line from Atlanta to Anderson, S. C. M. Bolding, Atlanta Natl Bank Bldg., Atlanta, secy. Noted May 3.

Ohio—See "Industrial Works" Cincinnati.

Ohio—Wheeling & Lake Erie R.R., Leader-News Bldg., Cleveland, acquired 100 acres of land near Bedford, and plans large freight yard. W. L. Rohbock, ch. engr.

California—See "Industrial Works," Los Angeles.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Kentucky**—Louisville & Nashville R.R. let contract building Rockhouse Branch from Blackey to Cudills Branch for developing coal mines, to T. P. Thompson, Knoxville, Tenn. Noted Nov. 8.

★**California**—Western Pacific Ry. let contract 2¾-mi. branch from Niles to San Jose to Utah Constr. Co., Phelan Bldg., San Francisco. About $800,000. Noted June 28.

EXCAVATION AND DREDGING

Proposed Work

S. C., Marion—Drainage—C. P. Roberts, Jr., and associates, plan to build drainage system here, including 4 mi. canal, 28 ft. wide.

La., Monroe — Drainage — See "Streets and Roads."

Ill., Muddy — (Official) — Excavation — Central Illinois Pub. Serv. Co. plans to excavate about 5000 yd. in cooling pond. Work is in connection with new addition to power house. D. R. Truax, purch. agt.

Ill., Woodstock — Ditch — Local Crafton Dist. No. 1, McHenry Co., plans to build 20 mi. open ditch and 15 mi. tile ditching. About $225,000. T. Homer, co. clk. G. Nelson, Sherwin Bldg., Elgin, engr.

Minn., Glenwood—Ditch—O. Irgens, aud. Pope Co. received no bids building Co. Ditch No. 15, involving 129,705 cu.yd. excav. About $14,269. Noted Nov. 8.

Kan., Manhattan—Drainage—State Dept. of Drainage and Irrigation, Topeka, soon receives bids building 2 drainage systems, involving 587,250 cu.yd. excav. J. B. Marcellus, state engr.

BIDS DESIRED

Wis., Sheboygan—Ditches—Until Dec. 15, by Sheboygan Valley D.D., Elkhart Lake. Sheboygan Co., building 6 mi. main ditch and 12 mi. laterals, involving 833,000 cu.yd. excav.

Minn., Buffalo—Ditch—Until Dec. 14, by J. A. Berg, aud., Wright Co., building Co. Ditch No. 33, involving 41,900 ft. 6-28 in. tile; 6 concrete walls; 44 intakes, 2000 ft. sheathing and 5700 ft. open ditch. About $19,718.

Minn., Elbow Lake—Ditch—Until Dec. 18, by C. M. Nelson, co. aud., building Co. Ditch No. 30, involving 28,550 ft. 6-24 in. tile. H. Dunaway, engr.

Minn., Ivanhoe—Ditch—Until Dec. 14, by K. A. Hansen, Lincoln co. aud., building Co. Ditch No. 37, involving 234,635 cu.yd. open work, 34,500 lin.ft. tile, 4 concrete drops, 8 bulkheads, 3 manholes and 12 tile inlets, about $65,015; Co. Ditch No. 34, all tile, $6938; Judicial Ditch No. 29,500 ft. open work and tile, $23,503.

Minn., Madison—Ditch—Until Dec. 11, by A. G. Shogren, aud., Lac qui Parle Co., building Co. Ditch No. 27, involving 53,800 ft. 6-14-in. clay or common tile. About $11,061.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ind., Hartford City**—Ditch—Blackford Co. let contract building Roby Ditch in northern part of county and extending into Wells Co., to G. Frommeyer & Co., Dunkirk, $14,057.

★**Ill., Garden Prairie**—(Official)—Drainage—Coon Creek Drainage Comrs., let contract 6 mi. tile drain, to Streater Drain Tile Co., Streater, $14,314. Noted Nov. 1.

★**Ia., Rockwell City**—(Official)—Drainage—Calhoun Co. let contract improving D.D. No. 67, to Rude & Kold, Pomeroy, labor, $14,677; to Cement Products Co., tile, $19,352. Noted Nov. 22.

★**Minn., Buffalo** — (Official) — Ditch — Wright Co. let contract building Ditch No. 34, to C. P. Madsen, Hutchinson. About $17,175. Noted Nov. 15.

★**Minn., Mankato**—(Official)—Blue Earth Co. let contract building Judicial Ditch No. 25, to G. F. Widman, Webster City, Ia., $12,900; No. 21 to Peterson & Malzahn, Good Thunder, Minn., $30,750; No. 23 to New Ulm Brick & Tile Yards, $8500; No. 28 and No. 20 to Paul Paulson, Mankato, Minn., $14,700 and $39,800 respectively, No. 30 to E. Nelson, Wells, Minn., $7400. Noted Nov. 15.

★**Minn., Pipestone** — Ditch — (Official)—Pipestone Co. let contract, open work, to Northwestern Drainage Co., Thief River Falls, Minn., $0.1285 per cu.yd.; tile, to F. Bisballe, Tyler, $153,200. Noted Nov. 15.

★**Mo., Memphis**—Ditch—Wyaconda River D.D. No. 2, Scotland Co., let contract ditch, involving 156,000 cu.yd. excav., to L. E. Sternberg, Creston, Ia. Noted Nov. 8.

★**Tracy, Cal.**—Irrigation—Bd. Dir. West Side Irrigation Dist. let contract pumping plant, to Lindgren Co., Monadnock Bldg., San Francisco. About $25,789.

INDUSTRIAL WORKS

Proposed Work

Conn., Waterbury—Mattatuck Mfg. Co., East Main St., had plans prepared by Aberthaw Constr. Co., archts., 27 School St., for 4-story factory. G. E. Judd, secy. and treas.

N. Y., Astoria—Astoria Consumers Ice Co. had plans prepared for 95 x [illegible] ft. ice manufacturing plant on 17th St. [illegible]. About $60,000.

N. Y., Astoria—Hunoff Machine Works, 45 Mills St., having plans prepared by [illegible] J. Harrison, archt., World Bldg., New York City, for 1-story machine shop. About $25,000.

N. Y., Brooklyn—P. Abbott Constr. Co., 180 Montague St., had plans prepared by S. Millman & Sons, archts., 780 Pitkin Ave., for 1-story, 131 x 152-ft. brick garage on Ocean Ave. About $85,000.

N. Y., Brooklyn—E. W. Bliss Co., Adams and Plymouth Sts., had plans prepared by W. Pfaendler, Ordnance Dept., foot 53rd St., for 6-story, brick and steel factory.

N. Y., Brooklyn—C. Hartman Co., 985 Deane St., has increased its capital stock from $10,000 to $80,000 and plans addition to factory.

N. Y., Brooklyn—F. Jiancarlo, 1470 67th St., had plans prepared by F. Savignano, archt., 6005 15th Ave., for 1-story, 72 x 100-ft. concrete garage on 60th St. About $35,000.

N. Y., Buffalo—Kellog Prodocts Co., 98 Delaware Ave., had plans prepared, 2-story, 32 x 64-ft. transformer house, 2-story, 30 x 112-ft. boiler house, 1-story, 50 x 57-ft. addition to boiler house and 3-story, 52 x 73-ft. packing house. About $40,000. R. J. Reidpath, Builders' Ex., archt.

N. Y., Buffalo—O'Neil Iron Wks., Perry St., has increased its capital stock to $500,000 and plans to build addition to plant.

N. Y., Long Island City—Astoria Light, Heat & Power Co., 130 East 15th St., New York City, had plans prepared for 1- and 4-story, 101 x 151-ft. grinding factory on Winthrop Ave. About $25,000. W. H. Bradley, pres.

N. Y., Long Island City—Ice Mfg. Co., 1480 Bway., New York City, had plans prepared by Mortensen & Co., archts., 405 Lexington Ave., New York City, for 1-story, 45 x 141-ft. ice plant and garage, Packard Pl. and Dreyer Ave. About $35,000.

N. Y., New York—American Stove Co., 209 West 43rd St., has increased its capital stock from $7,000,000 to $10,000,000, and plans to build addition to plant.

N. Y., New York — Standard Concrete Machinery Co., 233 Bway., has increased its capital stock from $100,000 to $250,000 and plans to build addition to plant.

N. Y., New York—Toch Screw Machine Products Corp., 8th St., has increased its capital stock from $50,000 to $100,000, and plans to build addition to plant.

N. Y., New York—P. Weinstein & Sons, 1397 Stebbins Ave. having plans prepared by I. Margan, archt., 372 East 149th St., 4-story, 100 x 100-ft. addition to garage, (Bronx Boro.). About $135,000.

N. J., Camden—Columbia Bronze Foundry Co., 529 Columbia Ave., has increased its capital stock from $10,000 to $200,000 and plans addition to plant.

N. J., Trenton—Standard Oil Co. acquired additional land on New York Ave. here, and plans to build several additions to its plant.

N. J., Wharton—Wharton Steel Co. will increase its capital stock from $3,000,000 to $10,000,000 and plans to build additions to its plant here.

Pa., Butler—Spang & Co., Etna St., plans 1- and 2-story, 170 x 250-ft. addition to its plant. About $150,000.

Pa., Groveton—Lewis Foundry & Machine Co. has increased its capital stock from $210,000 to $1,000,000 and plans addition to plant.

Pa., Johnstown — Flood City Mfg. Co., Elder and Messenger Sts., has increased its capital stock from $15,000 to $100,000, and plans 4-story, 100 x 120-ft. concrete and steel addition to factory. J. L. Hershberger, Southmont, genl. mgr.

Pa., Phila.—Main Belting Co., 1219 Carpenter St., had plans prepared for 3-story addition to plant.

Industrial Works (Continued)

Pa., Phila.—A. Schoenut & Co., had plans prepared for 1-story, 58 x 141-ft., 40 x 89-ft. and 21 x 89-ft. lumber yard and kiln building. About $50,000. A. P. Schoenhut, Adams and Cepviva Sts., pres. Ballinger & Perrot, 17th and Arch Sts., archts., soon let contract.

Pa., Phillipsburg—Atlantic Refining Co., 3141 Passyunk Ave., Phila., having plans prepared by C. H. Ehler, archt., c/o Phila. office, for 4-story, 100 x 200-ft. oil storage warehouse. About $200,000. C. Metz, Phillipsburg, supt. constr.

Pa., Stealton—John Hoffer Flour Mill Co. soon lets contract rebuilding 5-story, 50 x 70-ft. brick mill recently destroyed by fire. E. E. Hollenbach, Brandwyne St., Phila., archt.

Md., Baltimore—L. Raast, 2340 Eutaw Pl., plans to build 2 and 3 story, 80 x 45 and 80 x 40 ft. brick and concrete warehouses, at 1540 Ridgely St. Abaut $22,000 and $30,000 respectively. Callis & Callis, 2055 Kennedy Ave., archts.

Va., Lynchburg—Lynchburg Foundry Co. plans to build 1-story foundry. About $60,000. Wiley & Wilson, engrs.

Va., Narrows—Union Tanning Co., Narrow, plans to rebuild plant recently destroyed by fire. Loss, $200,000.

W. Va., Huntington—Jeffrey-Dewitt Co., Butler St. and Grand Trunk R.R., Detroit, Mich., plans to build factory here. About $100,000.

N. C., Lexington—Peacock Furniture Co. plans rebuilding furniture factory recently destroyed by fire with $60,000 loss.

Fla., Tampa—Oscar Daniels Shipbuilding Co., Woolworth Bldg., New York City, has leased shipyards of Tampa Shipbuilding & Eng. Co., and plans to build several large additions to same.

Ala., Birmingham—Indian Refining Co., 1320 Ave. E, plans rebuilding concrete warehouse and plant which was destroyed by fire. About $100,000. F. A. Chapman, mgr.

Ky., Solvay—Kentucky Solvay Co., controlled by Semet-Solvay Co., Milton Ave., Syracuse, plans to increase its capital stock from $2,700,000 to $5,200,000 and plan addition to plant.

O., Cincinnati — Cincinnati Terminal Warehouse Co., soon lets contract 7-story, freight terminal and warehouse in site enclosed by Central Ave., Smith St. and from Front to Augusta St. Plans include laying 4 tracks covering area 175 x 750 ft. and running entire length of terminal. A. M. Allen & Co., Cincinnati, engrs.

O., Cleveland—Cleveland Gear Grinding Co., recently incorporated with $350,000 capital stock, plans to build factory in East 152nd St. Dist.

O., Cleveland—Vichek Tool Co., Quincy Ave., plans to build 3-story addition to plant.

O., Cleveland — Woodland-55th St. Co., 630 Cuyahoga Bldg., plans to build brick and concrete garage, 5700 Woodland Ave. About $25,000.

O., Columbus—Blue Valley Creamery Co., 702 South Clinton St., Chicago, had plans prepared for 3-story brick factory on Grove St. About $50,000. Noted Nov. 15.

O., Mansfield—Phoenix Electric Co. plans 1-story, 100 x 500-ft. factory. Althause & Jones, archts., 204 Market Bldg., soon let contract.

Ind., Ft. Wayne—City having plans prepared by Mahurin & Mahurin, archts., 124 West Jefferson St., for addition to lighting plant. About $35,000.

Ind., Hammond—Standard Steel Car. Co. plans to build several large additions to its plant here. Company recently received $60,000,000 contract from U. S. Government for gun parts.

Mich., Detroit—Amer. Car & Fdry. Co. having plans prepared for 1-story paint shop. About $50,000. J. H. Ames, 445 East Ferry St., engr.

Ill., Chicago—Bunte Bros., 730 West Monroe St., have leased 14-acre site at Franklin Blvd. and Ohio St., and plans rein.-con. factory. About $1,500,000.

Ill., Chicago—L. Pfaelzer & Son, 3927 South Halsted St., soon let contract, 2-story, 51 x 109-ft. abbattoir. About $80,000. Packers' Architectural & Eng. Co., 431 South Dearborn St., archts. and engrs.

Ill., Lincoln—Langellier Motor Co., 112 South McLean St., had plans prepared by Deal & Ginzel, archts., 289 Independent Order of Odd Fellows Bldg., for 30 x 138-ft. garage and salesroom. About $30,000. O. L. Langellier, mgr.

Ill., South Chicago—Iroquois Iron Co., having plans prepared by C. D. Rawstorne, archt., 122 South Michigan Ave., for 1-story slag handling plant. About $100,000. E. Raum, 3267 East 95th St., secy.

Wis., Menominee Falls — Standard Oil Co., 16th and Grand Ave., Milwaukee, plans to build 2-story garage here. About $50,000. Leiser & Hoist, 402 Germania Bldg., Milwaukee, archt.

Wis., Osseo—Oatman Condensed Milk Co., 327 North Jefferson St., Chicago, soon receives bids for 2-story, 100 x 225-ft. brick and steel condensory.

Ia., Burlington—G. G. Higbee, Washington and Central Aves., plans to build 77 x 106-ft. concrete corliss shop. About $50,000. W. F. Weibley, Tama Bldg., archt.

Ia., Burlington—Iowa Soap Co., 816 Valley St., plans 5-story, 40 x 42-ft. rein.con. factory. About $55,000. F. M. Smith, pres. W. F. Weibley, Tama Bldg., archt.

Ia., Davenport—Armour & Co., 105 Rock Island Ave., purchased site on Front St. and plans to build rein.-con. and steel addition to its plant. About $135,000.

Minn., Rochester—J. C. Thompson plans 2-story, 76 x 140-ft. garage here. About $30,000. F. H. Moose, archt.

Kan., Wichita—Cudahy Packing Co., 14th and Jones Sts., Omaha, Neb., plans to build plant on newly acquired 60-acre tract of land. About $500,000.

Neb., Omaha—C. W. Calkins, City Natl. Bank Bldg., soon lets contract, 1-story, 100 x 132-ft. garage. About $30,000. J. T. Allen, Brandeis Theater Bldg., archt.

Wyo., Cheyenne—Union Pacific R.R. plans to build additions to its shops here. About $1,600,000. R. L. Huntley, 15th and Dodge Sts., Omaha, Neb., ch. engr.

Mo., St. Louis—M. A. Burdeau, 16 Hortense Pl., soon lets contract, 1-story, 50 x 135-ft. garage and sales building. About $60,000. P. J. Bradshaw, 512 International Life Bldg., archt.

Tex., Grand Saline—Grand Trunk Saline Salt Co. plans to rebuild its plant, recently destroyed by fire. About $41,500.

N. M., Tucumcari—D. F. Thomas, Tucumcari, and associates plan to build 125-ton oil flotation mill here. About $30,000.

Ariz., Tuscon—Tuscon Warehouse & Transfer Co. having plans prepared by W. Curlett & Son, archts., Merchants Bank Bldg., Los Angeles, for 4-story, 66 x 66-ft. rein.-con. warehouse. About $40,000.

Cal., Fresno—Western Meat Co., 744 P St., having plans prepared for addition to plant. About $90,000.

Cal., Hanford—Cousins Tractor Co., recently incorporated with $100,000 capital stock, plans to build factory on East 7th St. H. R. Cousins, S. McCord, Hanford, and A. D. Ferguson, Fresno, among incorporators.

Cal., Hanford—Kings County Packing Co. plans to build 80 x 100-ft. addition to cannery. About $35,000.

Cal., Los Angeles—Amer. Can Co., 4801 Sante Fe St., plans to build new can factory and warehouse; also lay sufficient tracks to hold 61 freight cars. About $1,000,000.

Cal., Sacramento—California Prune & Apricot Growers, Inc., plans to build 4-story packing plant. About $160,000.

Cal., Sacramento—Southern Pacific Co. plans building steel manufacturing and switch plant. W. Hood, Flood Bldg., San Francisco, ch. engr. About $565,000.

Cal., San Francisco — Cathering Dunne Co. plans to build 2-story lithographing plant on Folsom St. About $35,000.

Cal., San Francisco—Natl. Paper Prod. Co., 534 Battery St., plans 2-story, 300 x 800-ft. factory. About $400,000. MacDonald & Kahn, engrs.

Ont., Weston—K. & S. Canadian Tires, Ltd., 527 Yonge St., Toronto, plans building 70 x 150-ft. factory here. About $60,000.

BIDS DESIRED

N. Y., Albany—(Official)—Until Dec. 11 by W. W. Wotherspoon, supt. pub. wks., Capitol, building freight sheds and headhouse on Pier 6, East River, Terminal Contract No. 207; advertised in this issue.

N. Y., Syracuse—Until Dec. 10, by Starrett & Van Vleck, archts., 8 West 40th St., New York City, for 3-story, 93 x 240-ft. rein.-con. warehouse on Willis Ave., here, for Church, Dwight & Co., 27 Cedar St., New York City. About $100,000. Noted Nov. 29.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Maynard**—Assabet Mills, Maynard & Shawmut Bank Bldg., let contract, 5-story, 50 x 400-ft. addition to E. W. Pitman Co., Bay State Bldg., Lawrence. Percentage basis.

★**Conn., Hartford**—Pratt & Cady, Inc., 556 Capitol Ave., let contract, 3-story, 35 x 100-ft. addition, to Porteus Walker Co., Inc., 13 Forest St.

★**N. Y., Buffalo** — National Analine & Chemical Co., 351 Abbott Rd., let contract 3-story, 80 x 122-ft. brick factory, at 140 Lee St., to J. W. Cowper Co., 724 Fidelity Bldg., $88,500.

★**N. Y., Morristown**—Hires Condensed Milk Co., 913 Arch St., Phila., let contract 3-story, 60 x 80-ft. factory, to Thompson & Binger Co., 280 Madison Ave., New York City. About $85,000.

★**N. Y., New York**—E. Greenbaum & Co., 349 East 103rd St., let contract, 3-story, 50 x 93-ft. addition to packing plant, to Lustbader Constr. Co., 103 Park Ave., $75,000.

★**N. J., Bloomfield**—International Arms Co. let contract 1-story, 240 x 600-ft. rein.-con. and steel munition factory, to Amer. Concrete Steel Co., 27 Clinton St., Newark.

★**N. J., Camden**—Evanson & Levering, 217 Atlantic St., let contract, 1-story, 110 x 240-ft. rein.-con. and steel addition to plant, to G. Kessler Contg. Co., Drexel Bldg., Phila. About $45,000.

★**N. J., Newark**—Bonnell Motor Car Co., 520 Broad St., let contract, 1-story, 112 x 200-ft. garage and service station to Becker Constr. Co., 361 Grove St., $50,000. Noted Nov. 29.

★**N. J., Perth Amboy**—Natl. Synthetic Co. let contract building 3 additions to chemical plant here, to Tullis & Blanchard, 326 East 42nd St., New York City. About $75,000.

★**N. J., Yardville**—Zee Zee Rubber Co., Yardville, let contract, 2-story, 50 x 160-ft. factory, to Martin Bros., Yardville, $25,000.

★**Pa., Erie**—Amer. Brake Shoe & Fdry. Co., 1305 West 12th St., let contract 1- and 2-story, 150 x 650 ft. addition to plant, to Crowell, Lundoff-Little Co., 1951 East 57th St., Cleveland, O. About $350,000.

★**Pa., Phila.**—Hulton Printing Processing & Dyeing Co., 3851 Frankford Ave., let contract 1-story, 75 x 210-ft. brick and concrete machine shop and storage plant on Coral St., to F. Crompton & Bro., 4614 Oakland St., Frankford. About $25,000.

★**Pa., Phila.**—F. A. Poth & Sons, 31st and Jefferson Sts., let contract 1-story, 44 x 50-ft. power house, to C. H. Casper, 925 Chestnut St. About $100,000. Noted Oct. 4.

Pa., Phila.—Phila. & Reading Ry. received low bid building engine house and machine shop, Tulip and Emerald Sts., from Wm. Steele & Sons Co., 30 South 15th St., Phila. About $323,517. Noted Nov. 22.

★**Md., Baltimore**—Amer. Propeller & Mfg. Co., 233-49 East Hamburg St., let contract 1-story, 150 x 200-ft. factory on Key Highway, to Price Constr. Co., Maryland Trust Bldg. About $60,000.

★**Va., Lynchburg**—Jobbers Overall Mfg. Co., 1701 12th St., let contract, 3-story, addition to factory, to C. W. Hancock & Sons, 1000 Church St., $60,000. Noted May 17.

★**Ala., Attilla**—Tubular Bucket Mfg. Co. let contract 1st unit, 60 x 220-ft. of new can manufacturing plant here, to Attilla Investment Co., Attilla.

Industrial Works (Continued)

★**O., Cleveland**—Ideal Tire & Rubber Co., 325 Guardian Bldg., let contract, 3-story, brick and steel factory, Warner Rd., to Hunkin-Conkey Constr. Co., Cuyahoga Bldg.

★**O., Cleveland** — Manufacturers Brush Co., 1758 West 45th St., let contract brick factory, 1554 West 114th St., to Hailsbauer & Krelschrer, 7945 Lorain Ave., $25,000.

★**O., Cleveland**—National Lamp Co., let contract building 72 x 186-ft. garage at Nola Park plant, Noble Rd., to S. W. Emerson Co., 1900 Euclid Ave., $30,000.

★**O., Elyria**—Elyria Machine Co. let contract 1-story, 60 x 300-ft. foundry and machine shop, to Austin Co., 14220 Euclid Ave., Cleveland. About $35,000.

★**O., Ironton**—Ironton Portland Cement Co., Masonic Temple, let contract building coal grinding and potash recovery plants to W. C. Barstow & Co., 50 Pine St., New York City.

★**Ind., Miller** — International Airship Corp., 527 Bway., Gary, let contract, 1-story, 199 x 600-ft. airship factory and power house, to N. P. Severin, 105 North Clark St., Chicago, $200,000. Noted Sept. 13.

★**Ill., Chicago**—A. M. Castle Co., 1300 North Branch St., let contract, 1-story, addition to warehouse, to C. Rasmussen, 154 Randolph St., $50,000.

★**Ill., Chicago**—Union Special Machine Co. let contract 8 story, 100 x100 ft. concrete factory, West Kinzie and Franklin Sts., to G. A. Fuller Co., 140 South Dearborn St. About $125,000. Noted Nov. 22.

★**Wis., Jamesville**—Chas. Skid Mfg. Co., Jamesville, let contract, 1-story, 50 x 150-ft. addition to factory, to A. Summers & Son, Jamesville. About $70,000.

★**Ia., Ft. Madison** — Perfection Tire & Rubber Co., building 3-story, 60 x 250-ft. tire plant by day labor. About $80,000. F. E. Humphrey, Fostoria Ave., mgr.

★**Minn., Minneapolis** — William Bros. Boiler & Mfg. Co., let contract, 193 x 298-ft. addition to warehouse, to A. Cederstan Co., Central and 3rd Aves., $40,000.

★**Kan., Wichita**—Wichita Flour Mill Co., 17th and Santa Fe St., let contract flour mill addition to Lehrack Eng. and Contg. Co., 725 Gloyd Bldg., Kansas City, Mo. About $150,000.

★**Utah, Provo** — Goddard Packing Co., 20th St. and Lincoln Ave., Ogden, let contract packing plant here, to Valladson Bros., Dooly Bldg., Salt Lake City. About $75,000.

★**Cal., Alameda**—Union Iron Works let contract building machine shops, to W. E. Duncan & Co., Sharon Bldg., San Francisco. $140,115. Noted Apr. 12.

BUILDINGS

Proposed Work

Mass., Brookline — (Official) — Church—Christian Science Benevolent Assn. having plans prepared by C. T. McFarland, archt., 162 Newbury St., Boston, building group of buildings on 20-acre tract on Single Tree Hill. F. H. Anderson, 236 Huntington Ave., Boston, will supervise construction.

Conn., Bridgeport—Church—St. Stephen's Congregation having plans prepared by J. A. Jackson, archt., 1123 B'way., New York City, 70 x 130-ft. About $75,000. S. Chemitzky, rector.

N. Y., Brooklyn—Institute—Brooklyn Institute of Arts and Sciences had plans prepared for buildings F and G. About $120,900. A. A. Hely, Academy of Music Bldg., pres. bd. trustees. McKim, Mead & White, 101 Park Ave., New York City, archt.

N. Y., New York—Hotel—Hamilton Hotel Corp., c/o E. Ellinger, 30 Church St., had plans prepared by Schwartz & Gross, archt., 347 5th Ave., 15-story, 100 x 133-ft. About $400,000.

N. Y., New York—Kitchen—Dept. Pub. Charities, Municipal Bldg., had plans prepared by D. Barber, archt., 101 Park Ave., 1-story, 54 x 116-ft. kitchen building No. 65. About $65,000. J. A. Kingsbury, comr.

N. Y., Rochester—Church—Salem Evangelical congregation, 435 Mt. Hope Ave., plans addition to church. About $148,000.

N. J., Ocean City—(Official)—Theater—Stores, etc.—H. E. Wendell, archt., 431 Central Ave., lets contract about Jan. 1, for 80 x 250-ft. theater, 2-story, 75 x 125-ft. observation and dance pavilion, 2-story, 75 x 125-ft. stores, 50 x 407-ft. bath house, frame concrete construction, and 2-story, 50 x 100-ft. brick swimming pool; also 125 x 400-ft. concrete piling and concrete girders, ocean pier; owners, Park Amusement Co., Inc. About $225,000. Noted Nov. 29.

Pa., Lititz—Bank—Lititz National Bank, 40 East Main St., having plans prepared by C. E. Urban, archt., Woolworth Bldg., Lancaster, 1-story, 65 x 75 ft. About $90,000. E. H. Snyder, cashier.

Pa., Phila.—Art Gallery—City having plans prepared. About $2,000,000. T. Booth Smith, Mayor.

Pa., Pittsburgh—Bank—Union Trust Co., 337 4th Ave., having plans prepared by E. P. Mellon and Trowbridge & Livingston, archts., Phila., 4-story. About $1,000,000.

Md., Baltimore—Hospital—G. W. DeHoff, M. D., 2020 North Charles St., c/o Baltimore Homeopathic Hospital plans. About $150,000. W. Gieske, 65 Gunther Bldg., archt.

Md., Baltimore—Theater—H. W. Webb, Fidelity Bldg., c/o Parkway Amusement Co., had plans prepared for 2-story, 83 x 125-ft.. About $150,000. O. D. Wight, archt., Munsey Bldg., soon lets contract.

Va., Petersburg—Hotel—Petersburg Investment Corp., plans 5-story addition. About $100,000. W. A. Joggy, Mechanics Bldg., pres. C. M. Robinson, Times Dispatch Bldg., Richmond, archt.

La., Monroe—Court House and Jail—See "Streets and Roads."

Ky., Lynch—Office—United States Coal & Coke Co. soon lets contract. About $100,000. J. T. Franklin, Benham, mgr.

O., Dayton — Theater—G. Burrows and associates plan to rebuild theater recently destroyed by fire. About $250,000. Pretzinger & Musselman, 1155 Reibold St., archts.

O., East Cleveland—(Cleveland P. O.)—Hospital—City soon lets contract, 3 and 4-story, 88 x 250-ft. About $200,000. Address W. M. Pattison, 777 Rockwell Ave. W. Hirsh, 1303 Swetland Bldg., Cleveland, archt.

O., Youngstown — Schools — Bd. Educ. plans. About $300,000.

Mich., Detroit — Terminal — Detroit, Toledo & Ironton R.R. acquired 76 acres land here and plans to build terminal. About $1,000,000. T. Groner, Springfield, O., ch. engr.

Mich., Muskegon — Hospital — Sisters of Mercy, Mt. Mercy Home, West Bridge St., Grand Rapids, having plans prepared by Briemaier & Son, archt., 41 University Bldg., Milwaukee, Wis. About $150,000.

Ill., Chicago—Hotel—A. Pick & Co., 212 West Randolph St., plans 84 x 90-ft., Madison and Market Sts. About $600,000.

Ia., Davenport—Schools—City plans election Dec. 10 to vote on $400,000 bond issue to build 3 intermediate ward schools.

Ia., Des Moines—Office—Iowa Realty & Investment Co., plans 3-story, 50 x 60-ft., brick and concrete. About $70,000. C. R. Graham, 410 East 5th St., pres.

Ia., Sioux City—Office—Davidson Realty Co., Davidson Bldg., plans 9-story, brick. About $75,000.

Ia., Story City—School—City voted $50,000 bonds to build school. E. E. Sevaried, secy. bd. educ. Noted Oct. 25.

Minn., Duluth—School—Bd. Educ. plans to build Munger School, 13th St. and 8th Ave. About $120,000. Croft & Boerner, 301 Palace Bldg., Minneapolis, archts.

Minn., Minneapolis — Office — Farmers' Investment Co., Minneapolis, plans, 50 x 60-ft. brick. About $50,000. C. S. Vojta, Silver Lake, pres.

Minn., Minneapolis—School — All Saints Congregation plans 2-story, 66 x 166-ft. rein.-con., 5th St. and 5th Ave., N.E. About $75,000. V. Cordelia, 518 Kasota Bldg., archt.

Kan., Pittsburgh— Hospital—G. W. Van Meter, archt., 504 Caldwell-Murdock Bldg., receives bids about Jan. 1, building 3-story, brick and rein.-con. addition to Mt. Carmel Hospital. About $100,000. Noted Oct. 25.

Kan., Wichita—Forum—City having plans prepared by L. Schmidt, archt., 121 North Market St., for addition to forum building. Cost, about $250,000; $150,000 now available for work.

Kan., Wichita—Office—Wichita Bldg. & Investment Co. having plans prepared 10-story, 18-26 North Market St., about $1,000,000. D. Marshall, Palace Theater Bldg., pres.

Neb., Omaha—Court House—City plans 3-story, 60 x 89-ft. brick and rein.-con. About $130,000. W. F. Gernandt, 437 Keeline Bldg., archt.

Neb., Omaha—Hotel and Office — Home Builders, Inc., Brandeis Theater Bldg., plans 7-story, 110 x 120-ft. brick and rein.-con. About $300,000. J. T. Allan, 224 Brandeis Theater Bldg., archt.

Neb., Omaha—Office and Service Station—Nebraska Storage Battery Co., 2203 Farnam St., plans 2-story, 95 x 132-ft. rein.-con. About $50,000. J. and A. McDonald, 905 Omaha Natl. Bldg., archt.

Neb., Omaha—Office and Store—Heart Realty Co., 245 Omaha Natl. Bank Bldg., plans 3-story, 66 x 132-ft. brick and rein.-con. About $52,000. J. T. Allan, 324 Brandeis Theater Bldg., archt.

Mo., Bowling Green—Sanitorium, Hotel, etc.—Bowling Green Mineral Springs Co. having plans prepared by Barnett, Haynes & Barnett, archts., 949 Century Bldg., St. Louis, for sanitorium, hotel, water-works and bottling plant. About $100,000. C. E. Still, M. D., Kirksville, pres.

Mo., St. Louis—Hospital—Missouri Pacific R.R. having plans prepared by C. H. Wray, archt., Rialto Bldg., 6-story, brick and stone. About $300,000. E. A. Hadley, St. Louis, ch. engr.

Mo., St. Louis—Hotel—N. Cole Investment Co. having plans prepared by N. B. Howard, archt., Century Bldg., 3-story, brick and stone. About $1,000,000.

Mo., St. Louis—Hotel, Theater and Store—Liberty Realty Co., c/o R. H. Cole, having plans prepared by N. B. Howard, archt., 943 Century Bldg. About $1,700,000.

Mo., St. Louis—See "Industrial Works."

Ark., Camden—High School—Bd. Educ. plans. About $100,000. T. M. Sanders, Little Rock, archt.

Colo., Sterling — High School — School Dist. having plans prepared by E. G. Groves, archt., 222 Foster Bldg., Denver, 2-story, 168 x 200-ft. About $60,000.

N. M., Silver City — Court House — City having plans prepared by Trost & Trost, archts., El Paso, Tex. About $250,000.

Ont., Windsor—School—School Bd. plans to erect new school. About $100,000. A. G. Roberts, Labelle Bldg., chn. bldg. com.

BIDS DESIRED

Mass., Wellesley — Art Buildings—Until Dec. 12, by Trustees Wellesley College, 3-story, 70 x 135-ft. Day & Klauder, Chestnut St., Phila., archts. Noted July 19.

N. Y., New Hampton—(Official)—Laundry, etc.—Until Dec. 12, by B. G. Lewis, comr. correction, Municipal Bldg., New York City, building laundry and storage buildings, cubicle dormitory and industrial buildings at New York City Reformatory.

N. Y., Syracuse—School—Until Dec. 10, by Bd. Educ. rebuilding Porter School, 2- and 3-story. About $150,000. G. Wright, Union Bldg., archt.

O., Akron—School—Until Dec. 10, by Bd. Educ. building 2- or 3-story. About $500,000. F. L. Packard, 1212 Hayden Bldg., Columbus, and T. R. Ridley, Akron Savings and Loan Bldg., archts. Noted July 12.

O., Cleveland—School—Until Dec. 24, by clk. Bd. Educ., Rockwell Ave. and East 6th St., for completion of North Doan School Annex. About $100,000.

O., East Cleveland—(Cleveland P. O.)—(Official)—High School—Until Dec. 17, by C. Ammerman, clk. bd. educ. building Shaw Technical High School, brick. W. H. Nicklas, 1900 Euclid Ave., Cleveland, archt.

Industrial Works (Continued)

O., Kenmore—(Official)—High School—Until Dec. 17, by I. W. Fiscus, clk. bd. educ., 2-story, 75 x 130 ft., on North 15th St. About $125,000. M. P. Lauer, 707 Peoples Bank Bldg., Akron, archt. Noted Nov. 1.

O., Oxford—(Official)—Chemistry—Until Dec. 23, by Bd. Trustees Miami University, building addition to chemistry building. F. L. Packard, 16 East Broad St., Columbus, archt. Noted Sept. 27.

O., Shaker Heights—(Cleveland P. O.)—(Official)—School—Until Dec. 21, by C. A. Palmer, clk. bd. educ., 2855 Coventry Rd., F. C. Warner, Hippodrome Annex, Cleveland, archt.

Ind., Gary—Hospital—Until Dec. 8, by Schmidt, Garden & Martin, archts., 104 South Michigan Ave., Chicago, building 4-story, hospital for General Hospital Assn. About $150,000. Noted July 26.

Ind., Kokomo — Masonic Temple—Until Dec. 15, by Howard Lodge No. 93, F. and A. M. Bldg., building 4-story, 76 x 95-ft. About $75,000. W. E. Williams, chn. bldg. comn. E. E. Dunlap, 909 State Bldg., Indianapolis, archt. Noted Aug. 9.

Okla., Miami—(Official)—Jail—Until Dec. 17, by Ottawa Co. Comrs. About $50,000. J. A. Walker, co. clk. Noted Nov. 22.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Brooklyn**—Club House—Queens Co. Jockey Club, 399 Fulton St., let contract, 3-story, 35 x 88 ft. addition to club house, paddock, and grand stand, Aqueduct Race Track, to H. J. Brown & Sons, 2534 Fulton St., $60,000. Noted Nov. 8.

★**N. Y., New York**—Office—Smith Valley Realty Corp., New York, let contract, 7-story, 68 x 79-ft. brick, Front St. and Maiden Lane, to W. L. Crow Constr. Co., 103 Park Ave. About $250,000.

N. J., Red Bank—School—Bd. Educ. let contract 2-story, 75 x 123-ft. brick and terra cotta, to H. H. Moore, 3rd Ave., Spring Lake, $100,000. Noted Nov. 8.

★**Pa., Harrisburg**—Junior High School—Bd. Educ. let contract, 4-story, stone and granite, to A. Wildman, 2206 North 3rd St., $300,000. Noted Nov. 15.

★**Pa., Pittsburgh**—Theater—J. Baziotes and P. Antonoplos, 318 5th Ave., c/o Olympic Theater, let contract, 3-story, 60 x 110-ft. addition and alteration to J. Eichleay, Jr. Co., 20th and Wharton Sts., $50,000.

Miss., Gulfport — City received low bid building emergency hospital, from J. Griffith & Sons Co., 112 West Adams St., Chicago. About $99,000.

★**O., Cleveland**—Office—Kirk-Latty Mfg. Co., Madison Ave., N. W., and 84th St., let contract, 2-story office and shipping building, to A. Rutherford Co., 2160 East 18th St. About $60,000.

★**O., Cleveland**—School — Bd. Educ. let contract addition to Rice School to Drummond & Miller Co., Guardian Bldg. About $115,000. Noted Nov. 15.

★**O., Lakewood**—Schools—Bd. Educ. let contract building 2 schools, Clifton Blvd. and Bunte Rd., to Cleveland Fireproofing Constr. Co., 412 Ainsfield Bldg., $51,243 and $57,838, respectively.

★**O., Sandusky**—Hotel—D. Olmsted, New Hotel Olmstead, Cleveland, let contract, 6-story, 75 x 132-ft., rein.-con. and steel, Columbus Ave. and Water St., to H. L. Stevens Co., East 9th St., Cleveland. About $200,000.

★**Ind., Terre Haute**—Theater, Store, and Office—Bankers & Merchants Theatrical Assn., 907 Terre Haute Trust Bldg., let contract, 1 and 2-story, 85 x 130 ft., to J. Wacker, 207 Chamber of Commerce Bldg., Indianapolis, $85,000.

★**Ia., Des Moines**—Hotel—J. E. Tone and associates, let contract, 12-story, rein.-con., to H. L. Stevens Co., 910 South Michigan Ave., Chicago. About $1,000,000.

Minn., St. Paul — High School — Bd. Educ. received lowest bid building Bay View High School, from E. R. Kiesslich, 456 40th St. About $87,670.

FEDERAL GOVERNMENT WORK

Proposed Work

Me., Caribou—Post Office — J. A. Wetmore, superv. archt., treas. dept., Wash., rejected bids opened Nov. 20. Same were in excess of appropriation. Noted Nov. 29.

Wash., D. C.—Buildings—War Dept., (N. D. Baker, secy.), soon lets contract building 50 additional buildings at Walter Reed Army Hospital here, temporary wood construction.

Ariz., Leupp—Bridges—Cato Sells, comr. Indian affairs, Wash., D. C., rejected bids opened Oct. 25, building 2 steel bridges. Noted Nov. 1.

BIDS DESIRED

Pa., Sunbury—Post Office—Until Jan. 28, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Wash., D. C.—Buildings—Until Dec. 10, by Bureau Yards and Docks, Navy Dept., Wash., reconstructing building No. 105 at Navy Yard. Former bids rejected. Noted Nov. 1.

Wash., D. C.—Generating Sets — Until Dec. 12, by Dist. Comrs. furnishing 2 electric generating sets for use at Home for Aged and Infirm.

Wash., D. C. — Motor Generator Sets—Until Dec. 17, by Bureau Yards and Docks, Navy Dept., Wash., furnishing and delivering 300 kw. motor generator sets and switchboards at various navy yards as follows: 2 at New York, 4 at Phila., 4 at Norfolk, Va., and three 500 kw. generator sets at Wash., D. C. Noted Nov. 22.

Wash., D. C.—Seaman Gunner's Quarters—Until Dec. 17, by Bureau Yards and Docks, Navy Dept., Wash. About $150,000.

Wash., D. C.—Sewerage System, Water Supply Intake and Reservoir—Until Dec. 26, by Cato Sells, comr. Indian affairs, Wash., for installing in Ute Mts., Colo.

La., Grande Isle—Buildings—Until Jan. 4, by E. P. Bertholf, capt. commandant, U. S. Coast Buard, Wash., D. C., for new building and accessories for Coast Guard Sta. No. 214, Barataria Bay. Noted Nov. 22; advertised in this issue.

La., New Orleans—Stone—Until Dec. 11, at U. S. Engr. Office, Custom House, New Orleans, furnishing and delivering stone for Head of Passes and Southwest Pass, Mississippi River; advertised in this issue.

Kan., Eldorado—Post Office—Until Jan. 7, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Okla. ,Shawnee—Post Office—Until Jan. 7, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Okla., Shawnee—Steam Heating System—Until Dec. 27, by Cato Sells, comr., Indian affairs, Wash., D. C., installing here.

Cal., San Francisco — Dredging — Until Dec. 19, by U. S. Eng. Office, 401 Custom House, San Francisco, dredging in Oakland Harbor.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

R. I., Melville—Dredging—Bureau Yards and Docks, Navy Dept., Wash., received only bid dredging at U. S. Naval Depot, Melville Sta., (a) net price per cu.yd. measured in place, for dredging and disposal of all earth, mud and other material not rock, in accordance with Government specifications, (b) price per cu.yd. measured in place for all bowlders excavated and disposed of in accordance with Government specifications, (c) alternate on bidders specifications, from J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, R. I., (a) $74 (b) $10 (c) $78 and $10. Noted Nov. 22.

★**R. I., Newport**—Warhead Storage—Bureau of Yards and Docks, Navy Dept., Wash., let contract building on Rose Island, (work complete), to Darling Slade Constr. Co., Contrs. Bridge, Newport. About $13,458. Noted Nov. 22.

★**Conn., New London**—Power House and Machine Shop—Bureau Yards and Docks, Navy Dept., Wash., let contract to Evatt Constr. Co., 161 Devonshire St., Boston, Mass. About $171,000. Noted Nov. 29.

★**N. Y., Brooklyn**—Shipbuilding Ways—Bureau Yards and Docks, Navy Dept., Wash., let contract building shipbuilding ways No. 2 to Jarrett-Chambers Co., 30 East 42nd St., New York City. About $301,998. Noted Nov. 22.

★**N. J., Cape May**—Garbage Incinerator—Bureau Yards and Docks, Navy Dept., Wash., let contract, to Marse-Boulger Destructor Co., 39 Cortlandt St., New York City, $3987, (award based, on omissions from original bid). Noted Nov. 22.

N. J., Lake Denmark—Fencing—Bureau Yards and Docks, Navy Dept., Wash., received bids Nov. 26, fence and gates at Naval Ammunition Depot (work complete) from Anchor Post Iron Wks., 165 Bway., New York, $47,379; W. A. Snow Iron Wks., Inc., 32 Portland St., Boston, Mass., $50,997; Cyclone Fence Co., Waukegan, Ill., $52,648. Noted Nov. 22.

★**Pa., Phila.**—Marine Barracks—Bureau Yards and Docks, Navy Dept., Wash., let contract, to McCloskey & Bahl, 1620 Thompson St. About $99,075. Noted Nov. 29.

Pa., Phila.—Reservoir—Bureau of Yards and Docks, Navy Dept., Wash., received bids Nov. 26, Specification No. 2654, 2,000,000 gal. rein.-con. reservoir, at Navy Yard, (work complete) from C. E. Weed, Inc., Albany, N. Y., $45,350; Warren Moore & Co., 13th and Market Sts., Phila., $46,921; E. Fay & Son, 2 South Mole St., Phila., $49,726. Noted Nov. 8.

★**Pa., Phila.**—Sprinkling System — Bureau Yards and Docks, Navy Dept., Wash., let contract, to General Fire Extinguisher Co., 275 West Exchange St., Providence, R. I., $9496. Noted Nov. 22.

Md., Annapolis—Floating Derrick Hull—Bureau of Yards and Docks, Navy Dept., Wash., received bids, Specification No. 2628, building at Naval Academy, (net price for hull with accessories complete), from Continental Shipbuilding Corp., 29 Bway., New York City, $9500; Elkton Mfg. Co., Elkton, Md., $17,257.

★**Md., Indian Head**—Artesian Wells—Bureau of Yards and Docks, Navy Dept., Wash., let contract, at Naval Proving Ground, to E. Christman, Massillon, O., $55,685. Noted Nov. 29.

Md., Indian Head—Extension to Power House—Bureau Yards and Docks, Navy Dept., Wash., received only bid building extension to power house, (work complete), from Dawson Constr. Co., May Bldg., Pittsburgh, $39,000. Noted Nov. 29.

★**Wash., D. C.** — Alterations to Office Building—J. A. Wetmore, superv. archt., treas. dept., let contract for alterations to building at 500-508 4th St., N.W. to F. L. Wagner, 1413 H St., N.W. About $55,400. Noted Nov. 29.

★**Wash., D. C.**—Brass Foundry—Bureau Yards and Docks, Navy Dept., Wash., let contract, to A. C. Moses, 916 New York Ave., $281,507.

Wash., D. C.—Cranes—Bureau Yards and Docks, Navy Dept., Wash., received only bid furnishing three 50 ton locomotive jib cranes in Norfolk, Va., Phila. and New York Navy Yards, from Penn Bridge Co., Bond Bldg., item 1, net price for 3 cranes complete in accordance with Government specifications, $395,480; item 3, net price 1 electric crane for Norfolk, Government specifications, $124,740, item 5, net price for 1 electric crane for Phila., $124,740; item 7, net price for 1 steam crane, New York, $146,500.

Wash., D. C.—Crane Runways—Bureau Yards and Docks, Navy Dept., Wash., received bids Nov. 30, (a) work complete, Government specifications, (b) steel work complete, including walkway and pipe railing, (c) pipe and concrete foundation complete, including placing of anchor bolts, anchor channels and grillage beams, but not furnishing same, from Ketler-Elliot Eng. Co., 155 North Clark St., Chicago, Ill., (a) $269,752, (b) $165,396, (c) $120,725; Jobson-Gifford Co., 30 East 42nd St., New York City, (a) $222,000, (b) $20,000, (c) $102,000; McClintic Marshall, 1421 Chestnut St., Phila., (b) $109,500; Cranford Paving Co., Union Trust Bldg., (c) $159,000. Noted Nov. 29.

Wash., D. C.—Foundry Extension—Bureau Yards and Docks, Navy Dept., Wash., received bids building at Navy Yard, (a) work complete, (b) price per lin.ft. of piles in place, from Warren, Moore & Co., 12th and Market Sts., Phila., (a) $183,000; Boyle-Robinson Constr. Co., Evans Bldg., Wash., (a) $187,965; (b) $0.45.

Fla., Key West—Filling—Bureau Yards and Docks, Navy Dept., Wash., received only bid building at distant control radio station, net price per cu.yd. filled material in place on basis of Government estimated of 15,000 cu.yd., from W. Gerstle Engr. Co., 198 Bway. New York City; about $1.90 per cu.yd. Noted Nov. 8.

Federal Government Work (Continued)

Wash., D. C.—Grading—Bureau Yards and Docks, Navy Dept., Wash., received bids Nov. 30, grading (a) Adams Mill Rd., (b) 25th St., (c) Q St., (d) Eads St., (e) Mt. View Pl., (f) 17th St., (g) Keokuk St., from Geo. Hyman, 2117 East St., N.W.: (a) $0.64, (b) $0.44, (c) $0.44, (d) $0.75, (e) $0.54, (f) $0.48, (g) $0.60; E. G. Gummel, 36 P St., N.W., (a) $0.79, (b) $0.91, (c) $0.70, (d) $0.80, (e) $1.25, (f) $0.37, (g) $0.37; W. F. Cush, Wash., D. C., (a) $0.89, (b) $0.69, (c) $0.48, (d) $0.62, (e) $0.69, (f) $0.52, (g) $0.57; G. B. Mullen & Co., Wash., D. C., (a) $0.99, (b) $0.44, (c) $0.40, (d) $0.47, (f) $0.53, (g) $0.34.

Wash., D. C.—locomotive Dry-Dock Cranes—Bureau Yards and Docks, Navy Dept., Wash., received only bid furnishing at Norfolk, Va., Phila. and New York Navy Yards, (a) net price for 3 cranes complete in accordance with crane for Norfolk, (c) net price for 1 electrical crane New York Navy Yard from Penn Bridge Co., Bond Bldg., Wash., D. C., (a) $395,480 (c) $124,740. Noted Nov. 22.

Wash., D. C. — Pattern Shop — Bureau Yards and Docks, Navy Dept., Wash., received low bids building at Navy Yards, (a) work complete, (b) amount added or deducted from (a) for one bay, (c) amount added or deducted from (a) and (b) for composition floors in lieu of wood block, (d) added or deducted from (a) and (b) using maple floors in lieu of wood block, (e) using asbestos roofing in lieu of tar and gravel, (f) using air-lock brick partitions in lieu of hollow terra cotta, (g) using glass ceiling light in court, (h) using steel elevator doors, (i) using steel toilet stalls, (j) masic floors in lieu of wood block, (k) omitting lintels, quorins, insets, etc., (l) amount added or deducted from (a) and (b) using sash in 3rd and 4th stories, (m) using solid brick in lieu of air lock, (n) giving office floors coating of coal tar pitch, (o) plumbing complete, (p) heating complete, (q) passenger and freight elevators, (r) electric lights, (s) wood block floors, (t) roof covering, (u) painting, (v) price per sq.ft., footing forms complete, (w) price per cu.yd. concrete footing in place, (x) price per lb. reinforcing steel in place, (y) per cu.yd. plain concrete footings in place, (z) price for piling work per pile, 30 ft. long, as follows:

Warren, Moore & Co., 13th and Market Sts., Phila., (a) $139,830, (b) $21,000, (c) add $800, (d) add $4370, (e) add $1223, (h) add $2245, (j) deduct $200, (v) $0.20, (w) $12, (x) $0.08, (y) $9.

Faribault Bldg. Co., Inc., 52 Vanderbilt Ave., New York City, (a) $142,386, (b) $19,000, (c) add $738, (d) add $600, (e) deduct $600, (f) deduct $1700, (g) add $890, (h) add $3078, (i) add $870, (j) add $4260, (k) deduct $200, (l) deduct $100, (m) add $1000, (n) add $75, (o) $15,800, (p) $22,045, (q) $35,420, (r) $19,800, (s) $18,677, (t) $8400, (u) $2412, (v) $18, (w) $7, (x) $0.0525, (y) $6.25, (z) $5500 each.

A. C. Moses Constr. Co., 816 New York Ave., (a) $447,961, (b) deduct $18,020, add $24,086, (c) deduct $1515, (d) deduct $1138, (e) add $400, (f) $20,350, (g) add $980, (h) add $2250, (i) add $1300, (j) deduct $7042, (l) deduct $1100. Noted Nov. 22.

★Wash., D. C.—Refrigerating Plant and Brine Circulating System—Bureau Yards and Docks, Navy Dept., Wash., let contract to Mayer Ice Machine & Eng. Co., 315 Grant St., Jersey City, N. J., $7700. Noted Nov. 22.

★Wash., D. C.—School — Bureau Yards and Docks, Navy Dept., Wash., let contract building electrical and general school at Hampton Roads, Va., to Harwood & Moss, Silsby Bldg., Newport News, Va. About $297,750.

Wash., D. C.—School—Dist. Comrs. rejected only bid received for building addition to Petworth School. Same was in excess of appropriation. Noted Nov. 8.

Wash., D. C.—Steel Towers—Bureau of Yards and Docks, Navy Dept., Wash., received bids Nov. 26, Specification No. 2568, building two 200-ft. steel towers at Naval Radio Sta., Virgin Isles, West Indies (a) net price per lb. steel (b) net price for lightning protection, from Bedford Fdry. & Machine Co., Bedford, Ind., (a) $0.143 (b) $1.66; Stewart Eng. Corp., 61 Bway., New York City, (a) $0.158, (b) $3.80; Aetna Steel Prod. Co., 1544 Bway., New York City, (a) $0.16, (b) $3500. Noted Nov. 1.

Wash., D. C.—Track Scales—Bureau of Yards and Docks, Navy Dept., Wash., received bids Nov. 26, Specification No. 2593, Item 4, 3 scales, 2 at Navy Yard, Portsmouth, N. H., and 1 at Charleston, W. Va., with modifications as desired by bidder, from Howe Scale Co., 341 Bway., New York City, $12,092; Standard Scale & Supply Co., 1631 Liberty Ave., Pittsburgh, Pa., (alternate bid), $7052; Fairbanks Co., 416 Broome St., New York City, $23,439. Noted Nov. 1.

W. Va., Charleston—Electric Duct System—Bureau of Yards and Docks, Navy Dept., Wash., received bids Nov. 26, Specification No. 2669, building at U. S. Naval Projectile Plant (work complete), from G. E. Eng. Co., Inc., 417 Canal St., New York City, $8988; H. E. Crook Co., Inc., 21 Light St., Baltimore, Md., $12,000. Noted Nov. 8.

N. C., Chapel Hill—Post Office — J. A. Wetmore, superv. archt., treas. dept., Wash., received bids Nov. 27, (work complete), from Haynes Bros., Chatham, Va., $43,950, alternate, add $8100; W. J. Brent, Bd. Trade Bldg., Norfolk, Va., $45,573, alternate, $48,131; Dreher Constr. Co., 748 Marquette Bldg., Chicago, $48,184, alternate, add $2400. Noted Oct. 25.

S. C., Charleston—Power Plant Improvements—Bureau of Yards and Docks, Navy Dept., Wash., received bids, Specification No. 2661, (a) work complete, (b) omitting coal bunkers and coal weighing equipment, (c) coal bunkers and coal weighing devices, (d) coal bunkers and alternative traveling coal weighers, from Carroll Electric Co., 714 12th St., N.W., Wash., D. C., (a) $24,700, (b) $110,000, (c) $118,000; Gillis Geoghegan, 537 West Bway., New York City, (a) $119,875; J. W. Danforth Co., Ellicott Sq., Buffalo, N. Y., (a) $130,000, (b) $107,000, (c) $23,350, (d) $19,000. Noted Nov. 15.

La., New Orleans—Radio Buildings—Bureau of Yards and Docks, Navy Dept., Wash., received bids Nov. 26, Specification No. 2649, building at Naval Sta., (a) net price, using brick for receiving building, (b) using wood construction, (c) amount deducted from "a" using wood and fibreboard lath in lieu of metal lath, from J. Thatcher & Son, Henneu Bldg., New Orleans, (a) $17,676; (b) $16,946, (c) $40; Dreher Constr. Co., Chicago, (a) $18,530, (b) $15,500, (c) $25; H. W. Bond & Bro., New Orleans, (a) $18,902, (b) $16,982, (c) $50. Noted Nov. 8.

S. D., Bellefourche—Post Office — J. A. Wetmore, superv. archt., treas. dept., Wash., received bids Nov. 28, (a) limestone, (b) sandstone, from J. Lauritzen, Fergus Falls, Minn., (a) $61,990; Wm. O'Neil & Son, Faribault, Minn., (a) $62,640; Eugene Schuler, Pasadena, Cal., (a) $64,000, (b) $66,500. Noted Oct. 11.

Wyo., Buffalo—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid, from W. D. Lovell, 1415 8th St., S.E., Minneapolis, Minn., $61,800. Noted Nov. 1.

Cal., Mare Island—(Vallejo P. O.)—Addition to Boiler Shop)—Bureau Yards and Docks, Navy Dept., Wash., received low bids building addition to boiler shop, Building No. 122, from F. Gallagher, 180 Jessie St., San Francisco, $30,900, 60 days; G. W. Boxton & Son, 1022 Hearst Bldg., San Francisco, $31,900, 180 days; Knowles & Mathewson, 442 Call Bldg., San Francisco, $31,967, 60 days. Noted Nov. 15.

MISCELLANEOUS

Proposed Work

Park Improvements—Key West, Fla.—City voted $60,000 bonds to improve parks.

Garbage Plant—Louisville, Ky. — City plans to build garbage reduction plant. About $325,000. D. B. G. Rose, chn. bd. pub. wks.

Park—Elwood, Ind.—City plans. About $10,000.

Subway — Kankakee, Ill. — City passed ordinance authorizing Illinois Central R.R. to build subway under tracks on Water St. Ordinance provides for 60-ft. opening which will be 14 ft. high where roadway passes and 10 ft. over sidewalk. A. S. Baldwin, 135 East 11th St., Chicago, ch. engr.

Transmission Lines — Lawrence, Kan.—See "Water-Works."

Wharf—Lufkin, Tex.—Lufkin Cotton Co. plans to enlarge wharf capacity to 45,000 ft. J. F. Christian, mgr.

Seawall—Long Beach, Cal.—Craig Shipbuilding Co., Bway. and Water St., plans to build rein.-con. seawall along its plant. About $45,000.

Pile Jetty—Three Rivers, Que.—Wayagamack Pulp & Paper Co., Ltd., Wayagamack Island, plans to build pile jetty. About $30,000. T. Pringle & Sons, Ltd., 20 St. Nicholas St., Montreal, engrs.

BIDS DESIRED

Docks—Seattle, Wash. — Until Dec. 17, by Comrs. King Co., building new ferry docks at east end of Madison St. and at Kirkland. About $50,000. S. J. Humes, co. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Tunnel — Bridgeport, Conn. — Karm Terminal Co., 447 North Washington Ave., let contract 900 ft. rein.-con. tunnel on North Washington Ave., to J. R. Sheehan, 309 Connecticut Ex. Bldg. About $35,000. Noted May 10.

★Shaft—New York, N. Y.—(Official)—Interborough Rapid Transit Co., 165 Bway., rescinded contract building Shaft No. 2, Queensboro Subway. Work will be done on force account bases. Noted Nov. 29.

★Station Finish—New York, N. Y.—Interborough Rapid Transit Co., 165 Bway., let contract finishing stations on Webster Ave. line (Bronx Boro.) to T. Dwyer, 216th St. and Bway.

★Launchways—Camden (South Camden), N. J.—New York Shipbuilding Co., 120 Bway., New York City, let contract to Armstrong & Latta, 110 South Broad St., Phila., $1,000,000.

Shed—Oakland, Cal.—City received lowest bid building shed on municipal wharf, Clay St., from C. Christenson & Sons, 565 16th St. About $22,800.

BUILDING OPERATIONS FOR OCTOBER

Following is a list of contracts awarded published by the F. W. Dodge Co. for New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and eastern Kansas from Jan. 1 to Nov. 1:

January 1 to November 1, 1917	$1,433,092,000
January 1 to November 1, 1916	1,121,616,397
January 1 to November 1, 1915	769,173,100
January 1 to November 1, 1914	632,462,200
January 1 to November 1, 1913	743,758,000
January 1 to November 1, 1912	743,331,500
January 1 to November 1, 1911	667,433,813
January 1 to November 1, 1910	694,007,066

NEW YORK AND NORTHERN NEW JERSEY

January 1 to November 1, 1917	$286,276,000
January 1 to November 1, 1916	225,106,500
January 1 to November 1, 1915	137,108,500
January 1 to November 1, 1914	112,360,500
January 1 to November 1, 1913	223,782,000
January 1 to November 1, 1912	206,392,500
January 1 to November 1, 1911	200,027,500
January 1 to November 1, 1910	205,844,000

The October total for contracts awarded in the larger territory amount to $154,451,574, against $122,464,271 for September, and $165,574,155 for August. For the smaller territory the October figures are $38,921,000 against $35,027,000 for September and $25,498,000 for August.

Commission of Public Docks, Portland, Ore., has under consideration a proposal for the removal of Swan Island and deepening the waterway in that locality from bank to bank, embracing a width of about 4000 feet, instead of merely creating a deep water channel at the west of the island. By dredging out the island and filling in the adjacent grounds on the mainland, the property can be made valuable for dock sites, and the establishment of manufacturing plants, alongside of which the larger ships afloat can moor and discharge and load cargoes. According to rough estimates, the island is made up of about 20,000 cu.yd. of material. The ordinary charge for dredging and removal of sand and gravel from the river bed is 10c. a cu.yd. This would make the project cost about $2,000,000. The island has an approximate length of two miles and is of varying width.

Pennsylvania May Separate Road Construction and Grading

The Pennsylvania State Highway Department may let contracts for grading work separately from regular road construction next year, the department announced. This subject is receiving serious consideration because of the advance in prices of materials, the difficulty in obtaining labor and the car-service interruptions caused by the priority order of the Government. The specifications are to be studied and taken up next month for determination.

Thus far only one or two contracts have been let for grading as a separate proposition, and observations have been made on them. In a number of instances county and borough authorities have favorably commented upon the plan for separate contracts.

Something like 26 counties have agreed to coöperate with the state in road work on a 50% basis, and 16 boroughs have accepted invitations to unite in improvement of streets which are on the line of state highways.

The department announced that hereafter it would make a charge of $2.50 for sets of plans and specifications for road work. Heretofore plans were to be seen at offices of engineers of the department. Under the new arrangement plans may be bought outright by interested persons and studied at their offices or homes. The announcement says that the price is at cost.

State Highway Commissioner O'Neil has rejected all of the bids received on Nov. 8 for road work which had been contemplated for Allegheny and Somerset Counties. The prices were considered so high that the department did not feel warranted in awarding contracts. All of this work will be readvertised in the near future. Bids were asked for either reinforced-concrete or bituminous-concrete construction.

To Adjust Labor to War Needs

L. C. Marshall, dean of the School of Commerce and Administration of the University of Chicago, has been designated by the Council of National Defense as the head of the newly created section on industrial service, whose field is consideration of the labor supply in war time. "As the demands of the Government for more supplies of all sorts have increased," says the Official Bulletin, "there have necessarily arisen in the various departments placing war orders a considerable number of problems relative to proper adjustment of labor supply to the war needs."

Ship Lumber Coming Fast

Five million feet of ship lumber was the production for the week ending Nov. 23. Double that amount is expected shortly, according to W. J. Haynen, assistant purchasing agent of the Emergency Fleet Corportation. A considerable number of mills in the Southern-pine industry, which have heretofore cut no ship timbers, are coming forward with offers to produce schedules or part of schedules.

Canada Prohibits Iron Exports

The Canadian Government has decided to prohibit the exportation of iron and steel in unfinished or semifinished form suitable for use in manufactures, including pig iron, steel ingots, billets, rods, shapes, angles and plates, except under license from the Department of Customs.

Kansas City Soon To Begin $2,000,000 Sewer

Surveys have been made and plans are under way for the proposed Blue River intercepting sewer at Kansas City, Mo. The interceptor will extend from the southern city limits to the Missouri River, 13½ miles, beginning as a 24-in. pipe and ending as a 10-ft. reinforced-concrete sewer. The work will be divided into five sections. The Board of Public Works expects to advertise for bids for the first section about Jan. 1. Curtis Hill is city engineer and Alfred E. Ludlow is engineer of sewers.

Board of Three Will Decide Value of Canadian Northern

The agreement fixing the basis of the arbitration to determine the value of the 600,000 shares of common stock in the Canadian Northern Ry., which are to be purchased by the Canadian Government to give it the ownership of the system, has been executed. It prescribes a maximum value of $10,000,000 to be placed on the stock; the arbitrators may award less.

Sir William Meredith is appointed arbitrator for the government and Hon. Wallace Nesbitt for the company. They will select the third member of the board, and the award must be made by March, 1918. Meanwhile the company is to make no expenditures except for operating expenses.

RIVER CHANNEL IMPROVEMENTS—COLUMBUS, O.

Bids were received by City, Nov. 13, for widening Scotia River, including building levees, bridges, etc., from (A) W. E. Callahan Constr. Co., 1517-18 Citizens Natl. Bank Bldg., Omaha, Neb.; (B) J. B. Sheets & Co., Pittsburgh, Pa.; (C) R. H. Evans & Co., Savings Bank Bldg., Columbus, O. The unit bids were as follows:

	A	B	C
2,000,000-cu.yd. excavation, class A	$0 61	$0 55	$0 64
25,000 cu.yd. excavation, class B	4 50	2 00	5 80
4,500 cu.yd. excavation, class C	4 50	2 50	6 30
8,000 cu.yd. excavation, class D	1 50	1 50	3 15
3,000 cu.yd. excavation, class E	1 50	1 50	4 75
5,000 cu.yd. excavation, class F	3 50	2 50	5 25
10,000 cu.yd. excavation, class G	75	2 00	1 05
Removing Town St. bridge (lump sum)	3,000 00	20,000 00	5,000 00
Removing old dam (lump sum)	3,000 00	5,000 00	10,000 00
50,000 cu.yd. solidified embankment	75	20	21
70 acres dressing and seeding	70 00	250 00	105 00
10,440 cu.yd. concrete, class A	10 05	13 00	11 55
8,260 cu.yd. concrete, class B	13 25	25 00	18 00
4,350 cu.yd. concrete, class C	12 00	12 50	12 60
8,250 cu.yd. concrete, class D	12 50	14 00	12 60
1,800 cu.yd. concrete, class E	12 00	12 00	12 60
900 cu.yd. concrete, class F	18 00	14 00	18 90
40,000 sq.yd. concrete revetment, class A	1 85	2 50	2 10
12,000 sq.yd. concrete revetment, class B	4 50	3 00	6 30
35,000 sq.yd. stone revetment, class A	1 85	3 00	3 70
10,000 sq.yd. stone revetment, class B	4 85	4 00	7 75
2,000 cu.yd. stone toe wall	4 50	7 00	10 50
220M. ft.b.m. sheet piling	120 00	8 00	105 00
73,500 lin.ft. wood piling	60	1 00	63
Temporary bridge (lump sum)	3,000 00	25,000 00	4,200 00
1,340,000 lb. placing reinforcing steel	015	02	02½
11,700 lb. angle spacers	07	07	08½
1,370 lin.ft. steel curb	10	2 00	1 80
Drains, manholes, conduits (lump sum)	250 00	1,500 00	2,100 00
1,473 lin.ft. concrete balustrade	5 75	20 00	6 30
1,617 lin.ft. stone balustrade	14 00	20 00	15 75
35,000 sq.ft. tooled finish	10	25	10
10,700 sq.ft. sidewalk finish	08	10	10
6,050 sq.yd. waterproofing	75	1 40	2 10
1,300 sq.ft. expansion joints	1 00	30	30
6,600 cu.yd. gravel fill	60	2 50	1 10
3,000 ton rip rap	3 50	4 00	3 70
3 sluice gate chambers	200 00	1,000 00	735 00
3 manholes	100 00	75 00	78 75
78-in. sluice gate	2,000 00	3,000 00	2,625 00
48-in. sluice gate	1,500 00	2,000 00	1,260 00
15-in. sluice gate	750 00	1,000 00	315 00
Removing and resetting old sluice gate	100 00	700 00	525 00
2 removing and resetting old flap valves	50 00	300 00	105 00
80 lin.ft. 15-in. vitrified pipe drain	3 00	3 00	210 00
3,000 lin.ft. concrete curbing	1 10	2 00	63
15,000 sq.ft. cement walk	18	15	21
3,000 lin.ft. pipe handrail	2 10	2 00	2 10
2,600 sq.yd. stone paving	1 00	2 00	1 53
Extended totals stone balustrade	$2,262,979 50	$2,361,379 00	$2,616,537 50
Extended totals, concrete balustrade	2,248,811 25	2,358,859 00	2,600,349 65

BARGE CANAL WORK, ALBANY, N. Y.

Contract 152

Bids were received by W. W. Wotherspoon, supt. pub. wks., for rebuilding upper end of Lock No. 35, Lockport, from (A) Frank L. Cohen, 49 Niagara St., Buffalo; (B) Lupfer & Remick, 592 Ellicott Sq., Buffalo. The unit bids were as follows:

	A	B
7,440 cu.yd. excavation	$3 40	$5 00
4 M. ft. b. m. sawed lumber—white oak	150 00	150 00
7,500 cu.yd. second-class concrete	10 00	11 00
9 cu.yd. first-class reinforced concrete	15 00	15 00
4,670 lb. metal reinforcement	065	065
17,000 lb. structural steel	12	12
17,000 lb. machined castings	12	14
480 lb. metal duct	14	16
420 lin.ft. fiber duct	20	15
80 lin.ft. diamond drill borings	3 60	6 00
Removing, storing and reinstalling lock equipment (lump sum)	1,000 00	5,500 00
Removing and reinstalling electrical conductors (lump sum)	500 00	1,000 00
Cofferdams, pumping, bailing and draining (lump sum)	6,000 00	10,000 00
Extended totals	$113,354	$142,278

Contract 170

Bids were received by W. W. Wotherspoon, supt. pub. wks., for completing junction lock and canal prism excavation and incidental work at South Greece, from (A) Cleveland & Sons Co., Brockport; (B) Woolsey Constr. Co., Davenport, Ia.; (C) Mohawk Dredge & Dock Co., Inc., Herkimer. The unit bids were as follows:

	A	B	C
27,000 cu.yd. excavation	$0 80	$0 85	$1 25
11,300 cu.yd. forming embankment	20	25	25
10 M. ft.b.m. sawed lumber in lock gates and miter sills	80 00	100 00	80 00
20.3 M. ft.b.m. sawed lumber, hemlock	60 00	80 00	60 00
2,190 cu.yd. second-class concrete	12 00	11 00	11 00
2,000 cu.yd. wash wall	2 50	3 00	2 50
860 cu.yd. fourth-class rip-rap	2 00	3 00	2 00
15,800 lb. metal work for lock gates	16	16	15
1,300 sq.ft. steel sheet piling	1 50	1 80	1 30
190 cu.yd. stone filling in cribs	1 75	2 00	1 75
Cofferdams, pumping, bailing and draining (lump sum)	900 00	900 00	800 00
Extended totals	$64,589	$67,217	$74,596

SEARCHLIGHT SECTION

Contracts To Be Let

PROPOSALS

Bids received until Dec. 29, 1917.

Bridge Repairs

BOARDS OF SUPERVISORS, ALBANY COUNTY AND RENSSELAER COUNTY, STATE OF NEW YORK

Troy, N. Y.

Sealed bids or proposals for repairing 12th Street Bridge over the Hudson River between Ontario Street, City of Cohoes and 12th Street, Lansingburg, City of Troy, in accordance with form of contract, plans and specifications adopted October 18th, 1917, will be received at the office of C. A. Roemer, County Superintendent, County Court House, Troy, N. Y., until twelve o'clock noon, Saturday, December 29th, 1917, and then and there will be publicly opened and read.

The work consists of repairing trusses and floor beams, renewing all woodwork of floor, building new retaining wall on south side of Cohoes approach and paving bridge and approach with wood block paving.

List of the approximate quantities of material involved is given below:

Structural steel (excluding spikes), 48,000 lbs.

Rivets to knock out, 700.

Holes to drill, 10,100.

Rivets to drive, 9,850.

Creosoted Yellow Pine Scantling, 86,000 ft. B.M.

Creosoted T & G Plank, 62,000 ft. B.M.

Creosoted 2-in., 29,000 ft. B.M.

Old Lumber, off, 175,000 ft. B.M.

3-in. Creosoted wood block paving, 1,720 sq.yds.

3½-in. Creosoted wood block paving, 1,540 sq.yds.

Concrete curb, 673 lin.ft.

7-in. concrete base, 322 cu.yds.

Catch Basins, 2.

Concrete sidewalk paving, 3,540 sq.ft.

Concrete Retaining Wall and Pedestals, 470 cu.yds.

Reinforced Rods and Dowels, 2,000 lbs.

Pipe Railing, 565 lin.ft.

Bids should be addressed to Highway Committee of Rensselaer County and Roads and Bridges Committee of Albany County, Rensselaer County Court House, Troy, N. Y., and endorsed "Bid for repairing 12th Street Bridge."

Bids must state prices for all items of the work and bids which do not include all the prices called for in the bidding form may be rejected.

Plans and specifications may be seen and bidding forms obtained at the office of E. J. Bedell, County Superintendent, Court House, Albany, N. Y., or C. A. Roemer, County Superintendent, Court House, Troy, N. Y.

All proposals must be made upon the form furnished by the County Superintendents and must give prices in both words and figures and be signed by the bidder, with his business address and place of residence.

Each bidder will be required to give the Committee satisfactory evidence of his competency, experience and responsibility to perform such work.

Each bid must be accompanied by a certified check or draft for Two Thousand Five Hundred Dollars ($2,500.00) payable to the Treasurers of Albany and Rensselaer Counties, N. Y., such check to be returned to the bidder unless forfeited under the conditions herein stipulated.

A bond will be required for the faithful performance of the contract in the sum of 50% of the contract price, with a surety company, authorized to do business, in the State of New York and satisfactory to the Committees.

The person or firm to which contract shall be awarded will be required to offer his surety and to execute contract and furnish required bond within ten days (excluding Sundays) from the date of mailing notice to him, at the address given in his bid, that contract is ready for signature; and in case of failure or neglect to so appear and execute contract and bond, the bidder will be deemed to have abandoned the contract, and the check accompanying the same shall be forfeited to the Counties of Albany and Rensselaer.

The right is reserved to increase or diminish the quantity of work called for, or to omit or modify particular items, as may be deemed necessary.

The right is reserved to reject any and all bids and to waive any defect or informality at the discretion of the committee, should the same be deemed to the best interest of the Counties of Albany and Rensselaer.

WILLIAM B. SHERMAN
A. C. NILES
C. Z. BENNETT
SALEM H. WHITE
JOHN H. FINNERTY
Highway Committee of Rensselaer County, Board of Supervisors.

JOHN J. THOMSON
ALEXANDER FLANSBURG
FREDERICK J. VAN WORMER,
EMANUEL WENGER
MICHAEL S. POE
Roads and Bridges Committee of Albany County, Board of Supervisors.

Bids received until Dec. 14, 1917.

Volcano Lake Levee Raising

El Centro, Cal., Nov. 20, 1917.

Sealed proposals will be received by the Board of Directors of the Compania de Terrenos y Aguas de la Baja California (S. A.), at its office in the Masonic Temple in the City of El Centro, State of California, until 10 o'clock a.m. of the 14th day of December, 1917, and thereupon opened, for the raising of Volcano Lake Levee, which is situated in the Republic of Mexico and begins near Black Butte and extends easterly to the east line of the Cudahy tract, a distance of approximately fourteen and one-half miles.

The precise grade to which said levee is to be raised is particularly stated in the plans and specifications and is for approximately nine and a half miles thereof, to wit: For that part of the levee lying between Black Butte and the Arroyo Turtuoso, a raise of approximately three feet above its present elevation; for that part of the levee lying easterly from the Arroyo Tortuoso, the raise to be from approximately 2.5 feet tapering to nothing.

The material for this raise will be taken exclusively from borrow pits to be provided by the Compania, approximately nine miles easterly from the west end of the Volcano Lake levee, and which are approximately one-fourth mile from the present tract. Connection will have to be made to such track from the borrow pits. The material used in making this raise may be hauled in cars over the existing track now laid on the levee. The estimated yardage is approximately 555,000 cubic yards.

Said work shall be completed on or before the 15th day of April, 1918.

Plans and specifications can be seen at the office of the Board of Directors in the Masonic Temple, in the City of El Centro, State of California, and at the office of the Chief Engineer of said Compania de Terrenos y Aguas de la Baja California (S. A.), in the City of Calexico, State of California, to which plans and specifications reference is hereby made for a more detailed description of the work to be done.

Any bidder to whom the contract shall be awarded shall, within ten days after the acceptance of his bid, make, execute and deliver to the Board of Directors a written contract in form satisfactory to said Board, for the performance of said work within the time and in the manner stated in said notice, plans and specifications, and also furnish it an acceptable bond in the sum of 25 per cent. of the total contract price, based on the Compania's estimate of the amount of work to be done, for the faithful performance of the said contract, and also furnish an additional bond in the sum of 50 per cent. of the total contract price, based on the Compania's estimate of the amount of work to be done, as a guaranty that the contractor will pay in full the claims of all persons performing labor upon or furnishing material to be used in such work.

Each bid shall be accompanied by a certified check for ten thousand ($10,000.00) dollars, made payable to the Treasurer of the Compania, and to be forfeited to said Compania should bidder fail for ten days after the acceptance of his bid to enter into said contract with the said Compania and furnished the required bonds.

The contract will be let to the lowest responsible bidder, but the Board of Directors reserves the right to reject any or all bids.

By order of the Board of Directors of the Compania de Terrenos y Aguas de la Baja California (S. A.)

R. D. McPHERRIN,
Secretary.

Bids received until Jan. 5, 1918.

Levee Construction

Chamois, Mo.

Sealed proposals will be received up to One O'Clock, Jan. 5th, 1918, at the Office of the Secretary of the Board of Commissioners of the Shawnee Creek Drainage District in Chamois, Missouri, for the construction of 60,000 cubic yards of earth levee.

Plans, specifications, bidders' forms, amount of bidder's bond or check, bond for construction and all information needed for bidders can be had of the Engineer, H. E. Steinmann, Chamois, Mo. Legal advertisement in the News of Osage County, Chamois, Mo.

J. RICHARD GARSTANG,
Secretary.

Chamois, Mo.